Dec. 22, 1942. J. CROMONIC 2,306,039

DETACHABLE AND ADJUSTABLE PLATES FOR HAIR CLIPPERS

Filed July 24, 1941 4 Sheets-Sheet 1

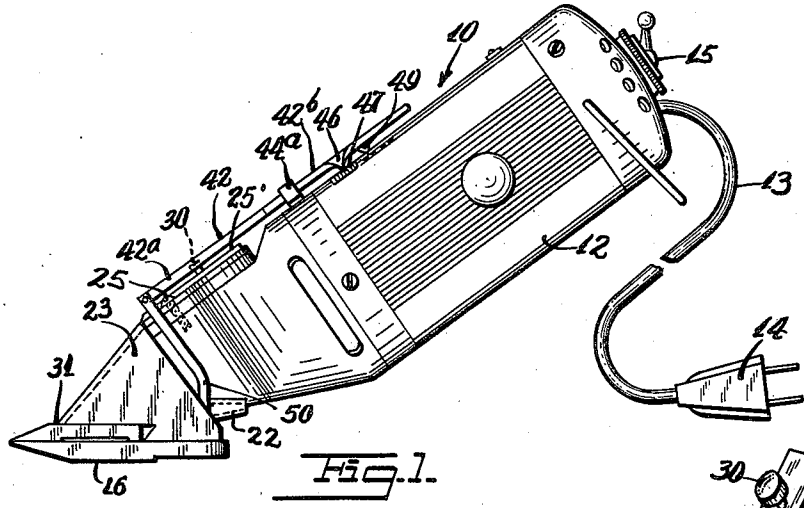


Fig. 1.

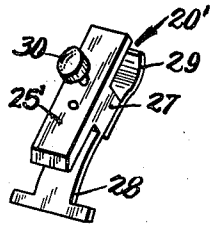


Fig. 10.

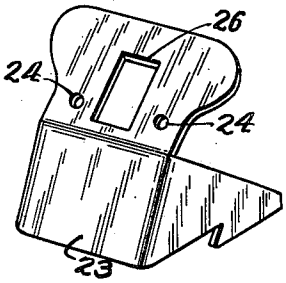


Fig. 9.

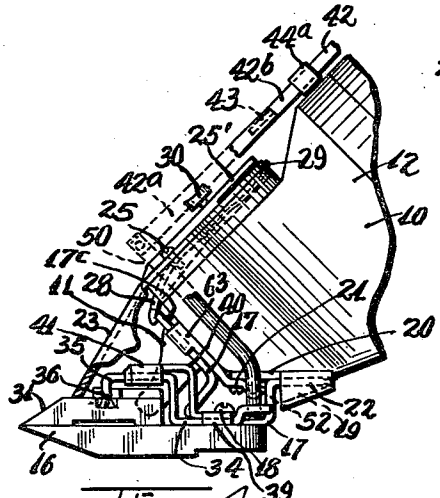


Fig. 4.

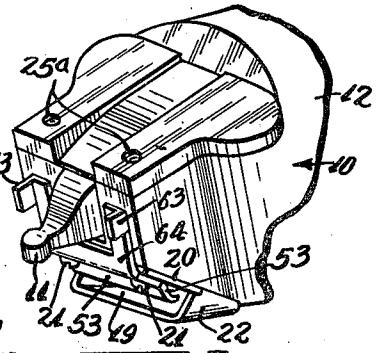


Fig. 8.

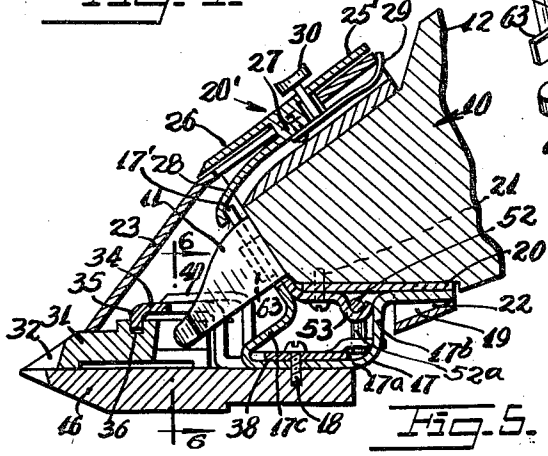


Fig. 5.

INVENTOR
Joseph Cromonic
BY Dalton & Blackett
ATTORNEY

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DETACHABLE AND ADJUSTABLE PLATES FOR HAIR CLIPPERS

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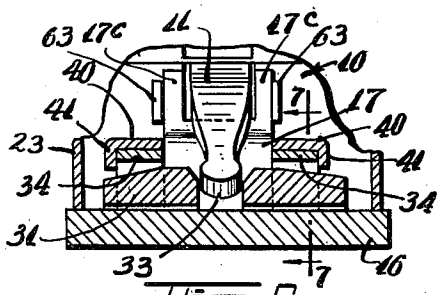


Fig. 6.

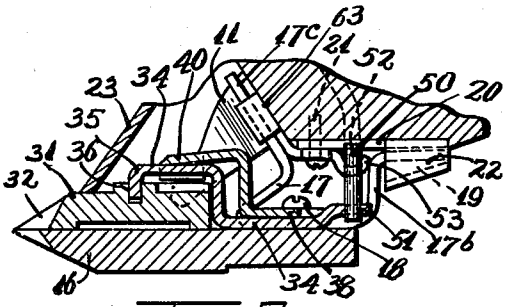


Fig. 7.

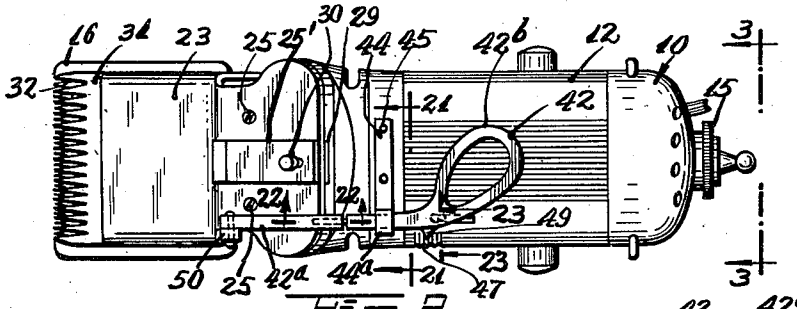


Fig. 2.

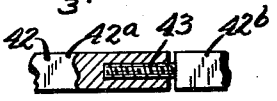


Fig. 22.

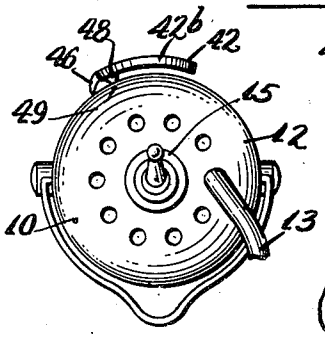


Fig. 3.

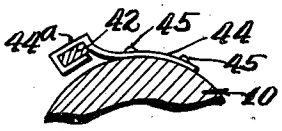


Fig. 21.

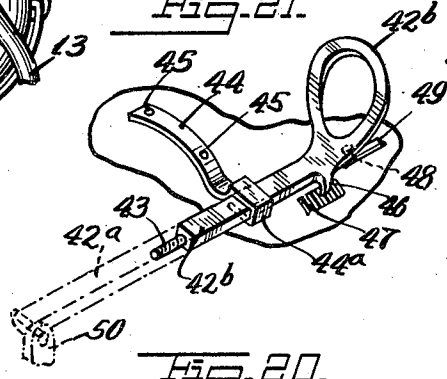


Fig. 20.

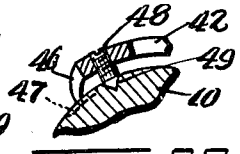


Fig. 23.

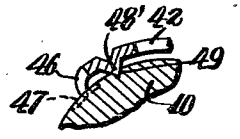


Fig. 24.

INVENTOR
Joseph Cromonic
BY
ATTORNEY

Dec. 22, 1942. J. CROMONIC 2,306,039

DETACHABLE AND ADJUSTABLE PLATES FOR HAIR CLIPPERS

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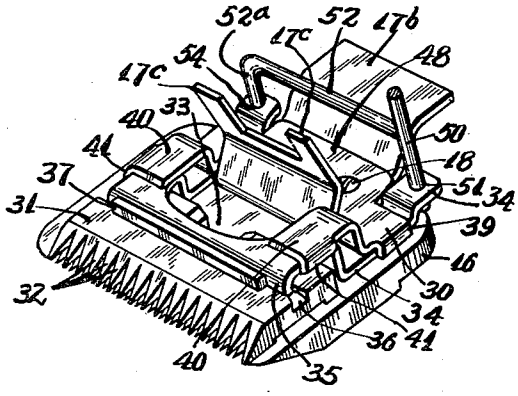


Fig. 11.

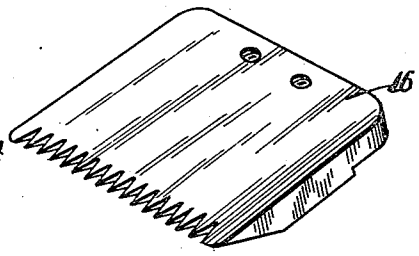


Fig. 12.

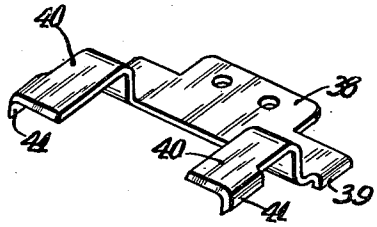


Fig. 14.

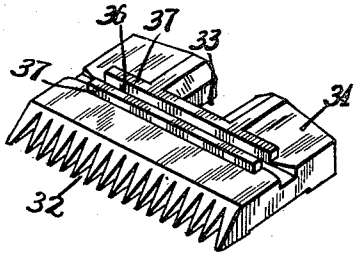


Fig. 13.

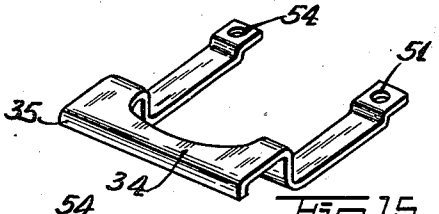


Fig. 15.

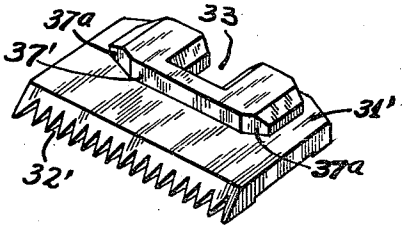


Fig. 17.

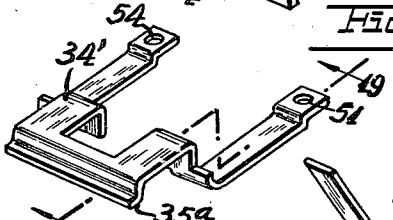


Fig. 18.

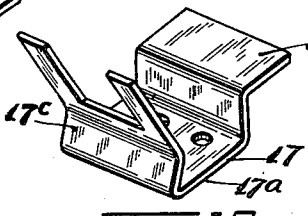


Fig. 16.

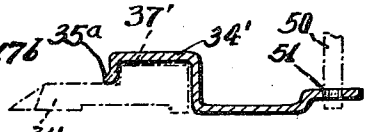


Fig. 19.

INVENTOR
Joseph Cromonic
BY Colton & Hobschelp
ATTORNEY

Dec. 22, 1942. J. CROMONIC 2,306,039

DETACHABLE AND ADJUSTABLE PLATES FOR HAIR CLIPPERS

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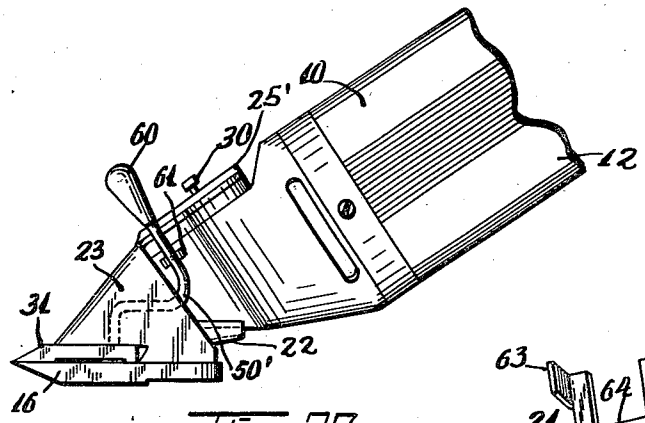


Fig. 27.

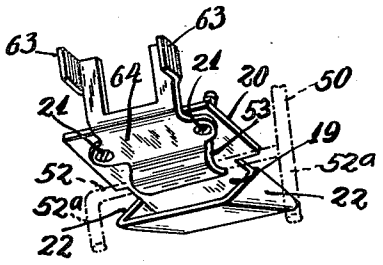


Fig. 25.

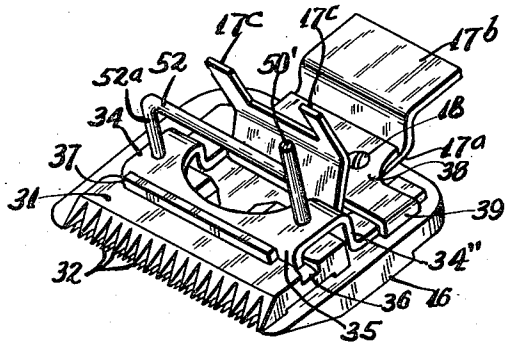


Fig. 28.

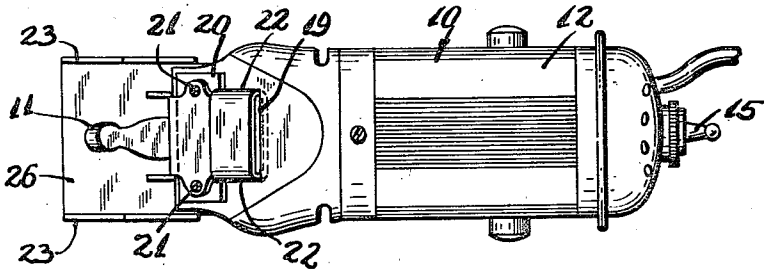


Fig. 26.

INVENTOR
Joseph Cromonic
BY Zoltan Polachek
ATTORNEY

Patented Dec. 22, 1942 2,306,039

UNITED STATES PATENT OFFICE

2,306,039

DETACHABLE AND ADJUSTABLE PLATE FOR HAIR CLIPPERS

Joseph Cromonic, Brooklyn, N. Y.

Application July 24, 1941, Serial No. 403,780

20 Claims. (Cl. 30—196)

This invention relates to new and useful improvements in detachable and adjustable plates for hair clippers.

More specifically, the invention proposes the construction of a hair clipper characterized by a comb blade detachably mounted in position and supporting a cutter blade adjacent thereto to slide laterally thereof and arranged in a manner to be continuously oscillated for clipping the hair. The construction permits easy removal of the blades and associated parts for cleaning and sterilization.

Still further the invention proposes the provision of means easily removable with the blades for shifting the cutter blade to various longitudinally adjusted positions with relation to the comb blade in a manner to adjust the clipper to control the length of the stub of hair remaining when the clipper is used.

A further object of the invention is the provision of a slide mounted on the comb blade and arranged to move longitudinally of the comb blade and provided at its front edge with a downwardly extending edge portion which engages a laterally extended groove formed in the cutter blade or shoulder, or abutment for permitting the cutter blade to be oscillated in all of the longitudinal adjusted positions of the slide.

A further object proposes the provision of a slidably mounted handle device exteriorly of the clipper for controlling the longitudinal movement of the slide and arranged to be releasably connected with the blades as a unit.

A still further object of the invention is the provision of means for holding the handle device securely in various adjusted positions for firmly holding the cutter blade and for preventing the blades from accidentally moving out of adjustment.

An important object of the invention proposes the construction of a clipper having its comb blade and cutter blade and associated parts supported on the clipper body in such a manner that the two blades and said parts may be conveniently removed as a unit to permit the entire removed device to be conveniently sterilized or to permit the cutter blade to be interchanged with cutter blades having different sized teeth.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a side elevational view of a hair clipper having detachable and adjustable blades constructed in accordance with this invention.

Fig. 2 is a top plan view of Fig. 1.

Fig. 3 is an end elevational view looking in the direction of the line 3—3 of Fig. 2.

Fig. 4 is an enlarged detailed view similar to a portion of Fig. 1 with certain of the parts broken away to reveal the interior construction.

Fig. 5 is an enlarged vertical sectional view of the front portion of the hair clipper.

Fig. 6 is a vertical sectional view taken on the line 6—6 of Fig. 5.

Fig. 7 is a vertical sectional view taken on the line 7—7 of Fig. 6.

Fig. 8 is a perspective view of the front portion of the clipper body, per se.

Fig. 9 is a perspective view of the cover plate.

Fig. 10 is a perspective view of the latch, per se.

Fig. 11 is a perspective view of the comb blade and cutter blade and associated parts.

Fig. 12 is a perspective view of the comb blade, per se.

Fig. 13 is a perspective view of the cutter blade, per se.

Fig. 14 is a perspective view of the slide supporting member.

Fig. 15 is a perspective view of the slide.

Fig. 16 is a perspective view of the bracket used for supporting the blades.

Fig. 17 is a perspective view similar to Fig. 13 but illustrating another form of cutter blade.

Fig. 18 is a similar view to Fig. 15, but illustrating a modified slide used on the cutter blade shown in Fig. 17.

Fig. 19 is a vertical sectional view taken on the line 19—19 of Fig. 18, to which certain associated parts have been schematically added.

Fig. 20 is a perspective fragmentary view of the control handle and certain associated parts.

Fig. 21 is a fragmentary sectional view taken on the line 21—21 of Fig. 2.

Fig. 22 is a sectional view taken on the line 22—22 of Fig. 2, of the adjacent ends of parts of the control handle with a portion thereof broken away to show the connecting stud.

Fig. 23 is an enlarged sectional view taken on the line 23—23 of Fig. 2.

Fig. 24 is a similar view to Fig. 23, but illustrating a modified construction.

Fig. 25 is a perspective view of the channel

and rod supporting members of the hair clipper.

Fig. 26 is a bottom view of Fig. 1, with the comb blade unit removed.

Fig. 27 is a view similar to a portion of Fig. 1 but illustrating a modification of the invention.

Fig. 28 is a view similar to Fig. 11 but illustrating a construction used in Fig. 27.

The detachable and adjustable blades for hair clippers, according to this invention, includes a clipper body 10 having an oscillatory driver member 11. In the drawings the clipper is illustrated as being electrically driven. However, this is merely for the purpose of illustration, and the device may be equally well applied to a manually operable clipper, or to a clipper having any other desired type of drive mechanism. On the drawings, the body 10 is characterized by a casing 12 enclosing an electric motor, not shown on the drawings, with the oscillatory member 11 extending from the front end thereof (as shown in Fig. 8). An electric wire 13 having a plug 14 for connection with an electric outlet socket extends into the casing 12 for supplying the required current to operate the motor. A switch 15 is mounted on the rear end of the casing 12 and is connected in the electric circuit, which includes the motor enclosed within the casing 12 and the source of energy for controlling the operation of the motor.

A comb blade 16 is detachably mounted upon the front end of the casing 12 of the clipper body 10. The detachable mounting of this comb blade 16 is characterized by a bracket 17. This bracket 17 is of a modified U-shaped configuration and has its intermediate arm 17^a securely attached to the top face of the comb blade 16 by screws 18. One arm of the modified U-shaped bracket extends upwards and slidably engages an inclined track 19 mounted upon the front end of the casing 12 of the clipper body 10. The track 19 is part of a plate 20, see Fig. 25, secured in position upon the body 10 by means of screws 21. This plate 20 is also provided with oppositely disposed side walls 22 between which the rear end of the arm 17^b of the bracket 17 extends. The front arm 17^c of the modified U-shaped bracket 17 extends upwardly along the end of the casing 12 of the body 10 and in between a pair of lugs 63 of a support plate 64 attached on said casing 12 by screws 21 which also secure the plate 20 in position.

Means in the form of a latch 20' is provided for locking the comb blade 16 in position upon the casing 12 of the body 10. This latch 20' is mounted upon a cover 23 secured in position upon the front end of the casing 12 of the clipper body 10. The cover 23 is formed of sheet material and is provided with a pair of openings 24 through which screws 25 freely pass. The screws 25 threadedly engage complementary openings 25^a formed in the casing 12 for securing the cover 23 in position upon the casing 12. The latch 20' is characterized by a plate 25' which engages over and covers an opening 26 formed in the cover 23 between the openings 24. An intermediate portion 27 extends from the plate 25' and passes through the opening 26. This intermediate portion 27 continues into a latch element 28 which is adapted to bear against the top end of the arm 17^c of the modified U-shaped bracket 17 for preventing disengagement of the arm 17^b from the track 19.

Means is provided for holding the plate 25' in a position in which the latch element 28 will maintain its operative position with relation to the arm 17^c. This means comprises a leaf spring 29 having one of its ends securely attached to the rear edge of the latch element 28 and the other of its ends bent to engage the free top edge of the cover 23 and hold the plate 26 against being moved, see Fig. 5. A handle 30 is mounted on the leaf spring 29 and extends through an opening formed in the plate 25' permitting the spring 29 to be flexed to disengage its free end from the adjacent edge over the cover plate 23 permitting the plate 25' to be moved forwards, moving the latch element 28 to an inoperative position to free the bracket 17.

A cutter blade 31 having teeth 32 formed on its front edge rests upon the top face of the comb blade 16 and projects from the front edge of the cover 23. The rear edge of the comb blade 31 is provided with a cutout 33 into which the oscillatory drive member 11 extends for causing the cutter blade 31 to be oscillated laterally relative to the comb blade 16.

A slide 34 is arranged for guiding the cutter blade 31 and for moving the cutter blade longitudinally relative to the comb blade 16 for controlling the length of the stub of hair remaining upon the head. This slide 34 is substantially U-shaped in plan view and has its arms straddling the bracket 17. The front edge of the slide 34 is raised upwards to extend along the top face of the cutter blade 31. The front edge 35 of the slide 34 is bent to extend vertically downwards and engage a groove 36 formed in the top face of the cutter blade 31 for laterally slidably supporting the cutter blade 31 to be oscillable. The groove 36 is formed by providing the cutter blade 31 with spaced upwardly extended ribs 37 between which the front edge 35 of the slide 34 engages.

A member 38 is provided for supporting the slide 34 and for limiting its movement to the longitudinal. This slide supporting member 38 is preferably constructed of resilient spring material and has its rear portion secured in position upon the top face of the intermediate arm 17^a of the bracket 17. This rear portion of the slide supporting member 38 is secured in position by the screws 18 which secure the bracket 17 in position upon the comb blade 16. At its sides, the rear portion of the slide supporting member 38 is provided with downwardly extending lugs 39 which extend along opposite sides of the slide 34. The front portion of the slide supporting member 38 continues into upwardly projected fingers 40 which rest on the sides of the intermediate arm of the slide 34 and which act to press the free front of the slide 34 downwards to maintain its front edge 35 in position within the groove 36. The side edges of the fingers 40 are also provided with downwardly extending lugs 41 which engage the sides of the slide 34 for limiting its movement to the longitudinal.

Means is provided upon the casing 12 of the clipper body 10 for moving the slide 34 longitudinally of the comb blade 16 to similarly move the cutter blade 31. This means comprises a control handle 42 formed of separate sections 42^a and 42^b. The section 42^b is provided with a threaded stud 43 which engages a threaded opening in the adjacent end of the section 42^a. The handle 42 is slidably supported in a bracket 44 attached on the casing 12 by means of rivets 45. The bracket 44 has a hook portion 44^a which engages about an intermediate portion of the handle 42. The handle 42 adjacent its rear end is provided with a pointed member 46 which is selectively

engageable with a plurality of serrations 47 formed in the casing 12 for holding the handle 42 in various adjusted positions.

The handle 42 is further provided with a set screw 48 engaging a longitudinal groove 49 formed in the casing 12 for limiting the handle to longitudinal movement and preventing its accidental disengagement from the hook 44a. When it is desired to disengage the handle from the hook 44a it is merely necessary to flex the end of the handle 42 upwards to disengage the set screw 48 from the groove 49, and this permits the handle to be disengaged from the hook portion 44a. The free end of the section 42a of the handle pivotally connects with a link 50 which extends downwards into the cover 23 and which freely engages into an opening 51 formed in one of the arms of the slide 34. A rod 52 extends from the link 50 and is rotatively supported in a bearing 53 mounted on the plate 20.

This rod 52 has its free end 52a bent downwards and freely engaging into an opening 54 formed in the other arm of the slide 34. Thus after the handle 42 is moved longitudinally of the casing 12 it will cause the rod 52 to pivot about the bearing 53 and move the slide 34 longitudinally of the comb blade 16 and similarly move the cutter blade 31.

In Fig. 24 a V-shape portion 48' is formed integral with the handle 42 and is adapted to engage the longitudinal groove 49. In this form of the invention, the V-shape portion is substituted in place of the said screw 48.

In Fig. 17 a cutter blade 31' is shown which has shallower teeth 32' than the teeth of the cutter blade shown in Fig. 13. In other respects this cutter blade 31' is similar in construction to the cutter blade shown in Fig. 13 and is adapted to be interchanged with the previous cutter blade for controlling the length of the hair remaining on the person's head.

In Figs. 18 and 19 details of a slide for the blade shown in Fig. 17, is shown. This slide 34' is similar to the slide shown in Fig. 15, distinguishing in the fact that the front edge 35a is turned outwards. The cutter blade 31' is provided with a relatively broad rib 37' which is adapted to slidably engage in the front portion of the slide 34', as schematically illustrated in Fig. 19. In other respects these parts are the same as the corresponding prior parts, and like portions thereof may be reccgnized by identical reference numerals.

The operation of the device is as follows:

The plug 14 is engaged into a conventional electric outlet socket and the switch 15 is moved to an "on" position to energize the motor contained within the casing 12 to drive the oscillatory drive member 11 to correspondingly oscillate the cutter blade 31 laterally relative to the comb blade 16.

If in using the clipper it is found that the device is leaving the hair on the head shorter than it is desired the position of the cutter blade 31 may be adjusted with relation to the comb blade 16 in the following manner. The handle 42 is pushed forwards causing the member 46 to ride over the serrations 47 and pivot the rod 52. This causes the ends of the link 51 and the end 52a of the rod to move rearwards and correspondingly move the slide 34. Since the front portion of the slide 34 connects with the cutter blade 31 it will pull the cutter blade rearwards in a longitudinal direction relative to the comb blade 16 and space the teeth 32 of the blade 31 rearwards of the teeth of the comb blade 16.

It is also possible to remove the comb blade 16 and cutter blade 31 from the casing 12 together with its other attached parts, as shown in Fig. 26, for permitting this unit to be conveniently sterilized and permitting the cutter blade 31 to be interchanged with other cutter blades. To accomplish this the handle 30 is moved forwards disengaging the end of the spring 29 from the free back edge of the cover 23 permitting the latch 20 to be moved forwards to disengage the latch member 28 from the upwardly extended arm 17c of the bracket 17. This frees the bracket 17. The comb blade 16 and the parts carried by said comb blade may now be pivoted downwards until the rear portion 17b of the bracket 17 strikes the inclined track 19. This downward pivoting of the parts disengaged the bottom of the link 50 and the bottom end 52a of the rod 52 from the apertures 51 and 54 in the slide 34. The comb blade 16 and the parts carried by it may now be pulled forwards and completely disengaged from the remaining portion of the clipper.

In the modification of the invention shown in Figs. 27 and 28 a clipper is shown for use upon animals which is similar to that illustrated in the previous form of the invention except for a slightly different means for moving the cutter blade 31 longitudinally relative to the comb blade 16. In this form of the invention the link 50' is fixedly attached to and extends upwards from the slide 34'' and is provided at its top end with a knob 60 for moving it and the rod 52 and end 52a to move the slide 34''. The casing 12 of the clipper body 10 in this form of the invention is provided with serrations 61 adjacent an intermediate portion of the link 50' and acts to hold the link 50' against accidental movement. In other respects this form of the invention is similar to the previous form.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

Having thus described my invention, what I claim as new, and desire to secure by United States Letters Patent is:

1. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade.

2. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various

longitudinally adjusted positions on said comb blade, said detachable mounting of said comb blade comprising an irregularly formed U-shaped bracket having its intermediate arm secured upon said comb blade, said irregularly formed U-shaped bracket having one of its arms engaging a slide mounted on said body and its other arm extending along the end of said body.

3. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, said detachable mounting of said comb blade comprising an irregularly formed U-shaped bracket having its intermediate arm secured upon said comb blade, said irregularly formed U-shaped bracket having one of its arms engaging a slide mounted on said body and its other arm extending along the end of said body, said latch comprising a covering engaging the top face of said comb blade, a plate slidably mounted on said cover and having an intermediate portion depending through an opening formed in said cover, a latch member continuing from said intermediate portion and engaging the top free edge of the second-mentioned arm of said irregularly formed U-shaped bracket.

4. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, said detachable mounting of said comb blade comprising an irregularly formed U-shaped bracket having its intermediate arm secured upon said comb blade, said irregularly formed U-shaped bracket having one of its arms engaging a slide mounted on said body and its other arm extending along the end of said body, said latch comprising a covering engaging the top face of said comb blade, a plate slidably mounted on said cover and having an intermediate portion depending through an opening formed in said cover, a latch member continuing from said intermediate portion and engaging the top free edge of the second-mentioned arm of said irregularly formed U-shaped bracket, and means for retaining said latch in a position in which its latch member will operatively engage said bracket.

5. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, and said first mentioned means comprising a slide slidably supported on said comb blade and having its front edge overlaying and being bent downwards to engage a groove formed in the top face of said cutter blade.

6. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, and said first mentioned means comprising a slide slidably supported on said comb blade and having its front edge overlaying and being bent downwards to engage a groove formed in the top face of said cutter blade, said groove being formed by providing said cutter blade with spaced upwardly extended parallel bosses between which the front edge of said slide is disposed.

7. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, and said first mentioned means comprising a slide slidably supported on said comb blade and having its front edge overlaying and being bent downwards to engage a groove formed in the top face of said cutter blade, said latter mentioned means comprising a handle longitudinally movably mounted on said body, a link extending from one end of said handle, a rod extending from said link and pivotally supported and said link and rod having its free ends engaging complementary openings formed in said slide for moving said slide longitudinally as said handle is moved longitudinally.

8. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, and said first mentioned means comprising a slide slidably supported on said comb blade and having its front edge overlaying and being bent downwards to engage a groove formed in the top face of said cutter blade, said latter mentioned means comprising a handle longitudinally movably mounted on said body, a link extending from one end of said handle, a rod extending from said link and pivotally supported and said link and rod having its free ends engaging complementary openings formed in said slide

for moving said slide longitudinally as said handle is moved longitudinally, and means for holding said handle in various adjusted positions.

9. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, said cutter blade being interchangeable with other cutter blades having teeth of different sizes.

10. In a hair clipper having a body with a projecting oscillatory drive member, a comb blade detachably mounted on said body, a latch for latching said comb blade on said body, a cutter blade adjacent said comb blade and having a rear opening into which said oscillatory drive member engages, means mounted on said comb blade for slidably holding said cutter blade to oscillate laterally under the operation of said oscillatory drive member, and means mounted on said comb blade for holding said cutter blade in various longitudinally adjusted positions on said comb blade, and an upwardly extending link provided with a knob at its free top end for shifting the position of said latter means.

11. In a hair clipper, a comb blade, a bracket fixedly mounted on the comb blade and having a rearwardly extending portion, and a support plate for attachment on the body of the hair clipper and having an inclined track for receiving the rear portion of said bracket, and a latch for engaging the front portion of said bracket and releasably holding it in position.

12. In a hair clipper, a support plate and an inclined track mounted on the body of the clipper, a comb blade, a bracket mounted on the comb blade and having a rear portion engaging said inclined track in a way so that the comb blade may pivot upwards and downwards, a latch normally engaging said bracket for holding the comb blade from pivcting, a cutter blade mounted on said comb blade, a slide mounted on the comb blade for holding the cutter blade in various longitudinal positions, a handle on the body of the cutter and connected with a link extending downwards through an aperture in said slide, whereby when the comb blade is pivoted downwards said link will be withdrawn from said aperture.

13. In a hair clipper, a support plate and an inclined track mounted on the body of the clipper, a comb blade, a bracket mounted on the comb blade and having a rear portion engaging said inclined track in a way so that the comb blade may pivot upwards and downwards, a latch normally engaging said bracket for holding the comb blade from pivoting, a cutter blade mounted on said comb blade, a slide mounted on the comb blade for holding the cutter blade in various longitudinal positions, a handle on the body of the cutter and connected wtih a link extending downwards through an aperture in said slide, whereby when the comb blade is pivoted downwards said link will be withdrawn from said aperture, said support plate having said lugs for engaging the side of said bracket to hold said bracket from lateral movement.

14. In a hair clipper having a pair of superimposed cutter blades and means for oscillating the top blade laterally relative to the lower one, a slide for holding the top blade in position on the lower one and movable longitudinally of said lower blade to similarly move said upper blade while oscillating laterally, comprising a substantially U-shaped member having its arms directed rearwards and slidably mounted on the rear portion of said lower blade, said member having its front end bent to overlap the rear edge of said top blade, means for moving said member longitudinally of said lower blade, and means for connecting said member to said top blade to prevent relative longitudinal movement while leaving said top blade free to oscillate laterally.

15. In a hair clipper having a pair of superimposed cutter blades and means for oscillating the top blade laterally relative to the lower one, a slide for holding the top blade in position on the lower one and movable longitudinally of said lower blade to similarly move said upper blade while oscillating laterally, comprising a substantially U-shaped member having its arms directed rearwards and slidably mounted on the rear portion of said lower blade, said member having its front end bent to overlap the rear edge of said top blade, means for moving said member longitudinally of said lower blade, and means for connecting said member to said top blade to prevent relative longitudinal movement while leaving said top blade free to oscillate laterally, said member having its front edge bent downwards and engaging a laterally extending groove formed in the top face of said top blade and comprising the means for connecting said member to said top blade.

16. In a hair clipper having a pair of superimposed cutter blades and means for oscillating the top blade laterally relative to the lower one, a slide for holding the top blade in position on the lower one and movable longitudinally of said lower blade to similarly move said upper blade while oscillating laterally, comprising a substantially U-shaped member having its arms directed rearwards and slidably mounted on the rear portion of said lower blade, said member having its front end bent to overlap the rear edge of said top blade, means for moving said member longitudinally of said lower blade, and means for connecting said member to said top blade to prevent relative longitudinal movement while leaving said top blade free to oscillate laterally, said member having its front edge bent to engage around an upwardly extending laterally projected rib formed on the top face of said top blade and comprising the means for connecting said member to said top blade.

17. A hair clipper, comprising a comb blade, a cutter blade mounted on said comb blade to slide laterally and longitudinally of said comb blade, a handle-like casing having said comb blade and cutter blade mounted as a unit upon its bottom end and enclosing a drive means for moving said cutter blade laterally of said comb blade, and a member mounted on said handle-like casing and connected with said cutter blade for moving said cutter blade longitudinally of said comb blade.

18. A hair clipper, comprising a comb blade, a cutter blade mounted on said comb blade to slide laterally and longitudinally of said comb blade, a handle-like casing having said comb blade and cutter blade mounted as a unit upon its bottom end and enclosing a drive means for moving said cutter blade laterally of said comb blade, and a

member mounted on said handle-like casing and connected with said cutter blade for moving said cutter blade longitudinally of said comb blade, said member being operable to move said cutter blade longitudinally of said comb blade while said cutter blade is continually moved laterally of said comb blade by said drive means.

19. A hair clipper, comprising a comb blade, a cutter blade mounted on said comb blade to slide laterally and longitudinally of said comb blade, a handle-like casing having said comb blade and cutter blade mounted as a unit upon its bottom end and enclosing a drive means for moving said cutter blade laterally of said comb blade, and a member mounted on said handle-like casing and connected with said cutter blade for moving said cutter blade longitudinally of said comb blade, said cutter blade being removable from said comb blade and replaceable thereon by being moved laterally of said comb blade in the plane of its lateral reciprocation by said drive means.

20. A hair clipper, comprising a comb blade, a cutter blade mounted on said comb blade to slide laterally and longitudinally of said comb blade, a handle-like casing having said comb blade and cutter blade mounted as a unit upon its bottom end and enclosing a drive means for moving said cutter blade laterally of said comb blade, and a member mounted on said handle-like casing and connected with said cutter blade for moving said cutter blade longitudinally of said comb blade, said comb blade being mounted on said casing and comprising the mounting of said comb blade and cutter blade upon said casing, and said member being mounted on said comb blade to retain said cutter blade in operative position on said comb blade when said comb blade is removed from said handle-like casing.

JOSEPH CROMONIC.