

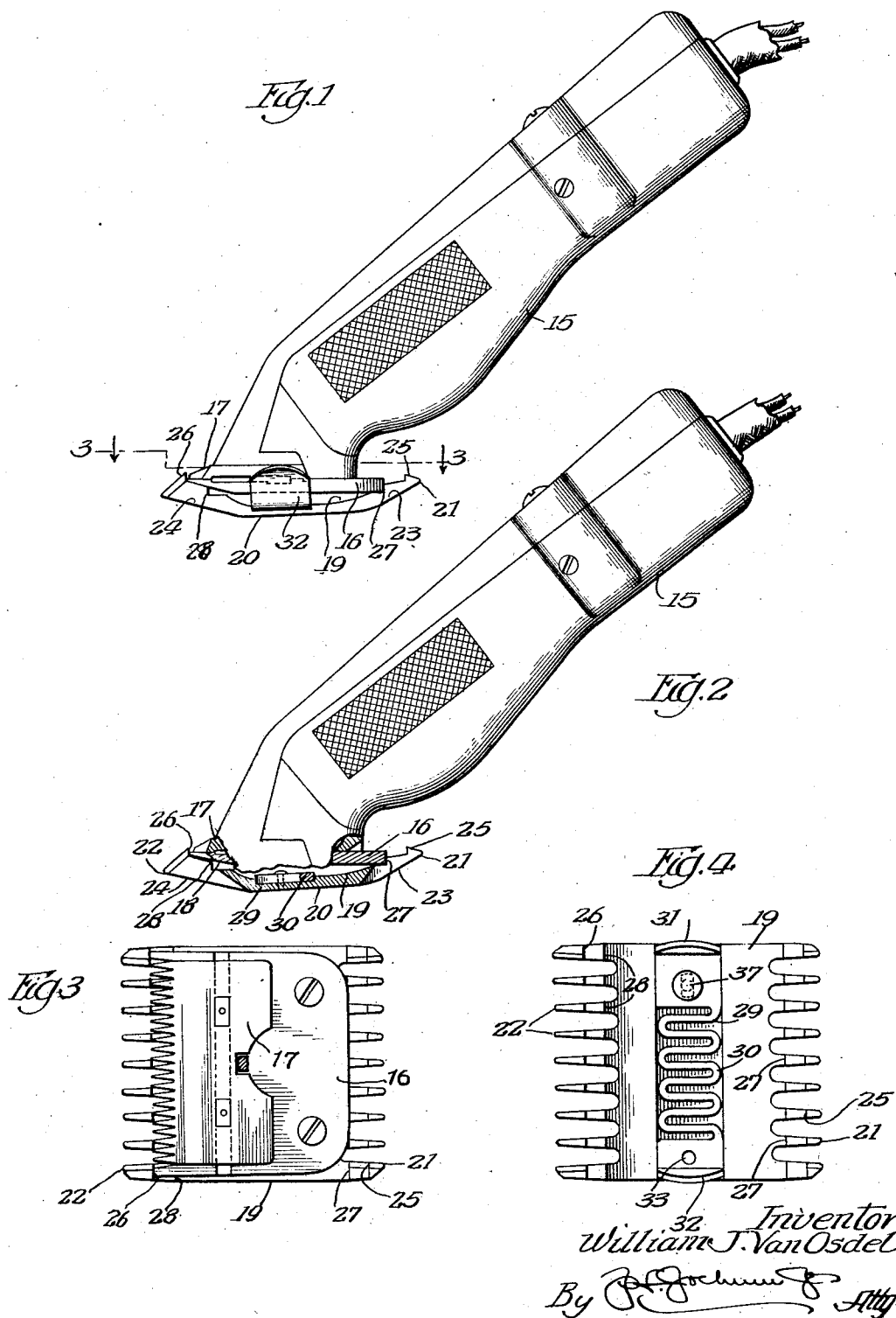
June 2, 1931.

W. J. VAN OSDEL
HAIR CUTTER ATTACHMENT

1,807,811

Filed Jan. 30, 1929

2 Sheets-Sheet 1



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Fig. 5

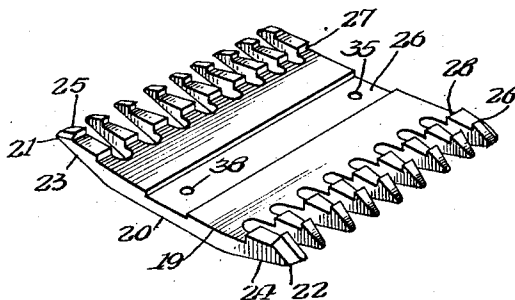


Fig. 6

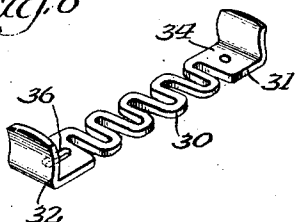


Fig. 7

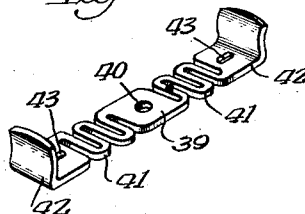


Fig. 8

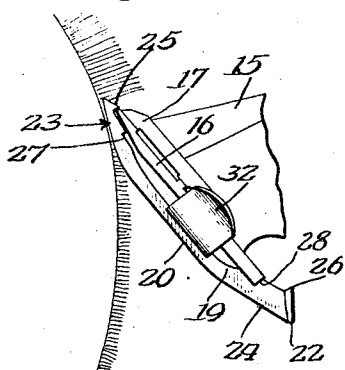


Fig. 9

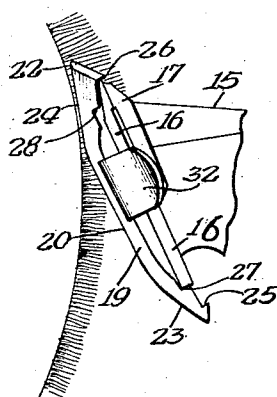
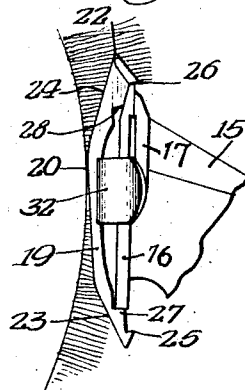


Fig. 10



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UNITED STATES PATENT OFFICE

WILLIAM J. VAN OSDEL, OF CHICAGO, ILLINOIS

HAIR CUTTER ATTACHMENT

Application filed January 30, 1929. Serial No. 336,116.

This invention relates to improvements in hair cutters and has for one of its objects to provide an improved guard or gage adapted for convenient attachment and by means of which attachment the length of the cut may be varied.

A further object is to provide an improved attachment or gage of this character which may be detachably secured to the cutter so that it may be readily removed and reversed according to the length of cut desired.

A further object is to provide improved means for detachably securing the guard or cutter in position.

To the attainment of these ends and the accomplishment of other new and useful objects as will appear, the invention consists in the features of novelty in substantially the construction, combination and arrangement of the several parts hereinafter more fully described and claimed and shown in the accompanying drawings illustrating this invention and in which

Figure 1 is a side elevation of a cutter having a guard or gage constructed in accordance with the principles of this invention applied thereto.

Figure 2 is a view similar to Figure 1, with parts broken away.

Figure 3 is a sectional view taken on line 3—3, Figure 1, on an enlarged scale.

Figure 4 is a top plan view of the guard or gage detached from the cutter and with the fastening device in position with respect thereto.

Figure 5 is a perspective view of the guard or gage.

Figure 6 is a perspective view of one form of fastening device.

Figure 7 is a perspective view of another form of fastening device.

Figures 8, 9 and 10 are diagrammatic views showing the use of the cutter with the gage in different positions.

Referring more particularly to the drawings the numeral 15 designates generally a clipper of any desired construction having a bottom cutter plate 16 upon which a cutter plate 17 reciprocates in the ordinary and well known manner.

The bottom plate 16 is provided with an upwardly inclined surface 18 on its lower face adjacent the teeth of the plate.

The numeral 19 designates generally the guard or gage which consists of a body portion having a flat central lower surface 20. The edges of the plate 19 on opposite sides of said central portion are shaped to form combs or guard fingers 21—22, and these fingers project upwardly from the central portion 20 respectively as at 23—24.

The teeth or fingers 21—22 are each provided with upwardly projecting guard heads 25—26 adjacent the extremities thereof and the plate 19 is provided with shoulders 27—28 in the upper face thereof adjacent the bottoms of the respective fingers 21—22, for a purpose to be set forth.

Arranged in the upper face of the plate 19 is a recess 29 which extends entirely across the plate and arranged within the recess is a fastening device embodying a spring body portion which is adapted for longitudinal adjustment. As shown in Figures 4 and 6, the body portion of the fastening device is bent back and forth upon itself as at 30 to form a longitudinally adjustable spring and connected to the ends of the spring are rigid clips 31 and 32 which project upwardly from the face of the plate 19 and are adapted to engage the lateral edges of the bottom plate 16 of the clipper.

The fastening device is secured in position to the plate 19 in any suitable manner preferably by means of a rivet 33 which passes through an opening 34 in the clip 31 and into a corresponding opening 35 in the plate 19. The other clip is provided preferably with a slot 36 through which a fastening device 37 passes and which enters an opening 38 in the plate 19.

If desired, the fastening device may be provided with a body portion having a central section 39 which may be fastened by means of a fastening device passing through an opening 40 and into an opening in the plate 19. On the opposite side of this portion 39 the body is shaped to form portions bent back and forth upon themselves as at 41 to form longitudinally adjustable por-

tions, and connected to the respective portions 41 are rigid clips 42 which are adapted to engage the side edges of the comb plate of the clipper. Each of these clips may be provided with slots 43 through which fastening devices may pass so that the clips may be adjustable with respect to the body of the gage or guard 19.

The fingers 21 and 22 of the guard or gage are of different thicknesses so as to provide for cutting of hair of different lengths.

In use, the guard or gage is applied to the bottom cutter plate 16 by causing the rear edge of the plate 16 to abut one of the shoulders 27—28 according to the position of the attachment. The forward edges of the teeth of the bottom cutter plate 16 will then engage one or the other of the upwardly projecting guard heads 25—26 on the respective teeth 21—22, when the guard or gage plate is forced into position upon the bottom cutter plate. As the guard or gage is forced into this position the clip 32, in the form shown in Figure 6, if such form of clip is used, and the clips 42, in the form shown in Figure 7, if the latter is used, will yield so as to permit the guard or gage to be placed in position so that the upwardly inclined upper face thereof will contact with the upwardly inclined lower surface 18 of the fingers of the bottom cutter plate 16 throughout the entire length of the latter.

The clipper may be then used as shown in Figure 8, that is with the inclined surface 23 of the guard or gage moving over the surface from which the hair is to be cut.

The guard or gage may be readily removed from the bottom cutter plate by forcing the same therefrom, the body portion of the fastening clips yielding to permit of such operation. The guard or gage may then be reversed so that the other set of fingers thereon will be adjacent the free extremities of the fingers on the bottom cutter plate and the guard then fastened to the bottom cutter plate, after which the clipper may be used in the manner shown in Figure 9, for a different length cut.

As shown in Figure 10, a still different length cut may be obtained by moving the lower surface 20 of the guard or gage plate 19 over the surface from which the hair is to be cut.

With this improved construction it will be manifest that there is provided a guard or gage which is adapted for cutting three different lengths, that is by the use of the center portion 20 as a gage to move over the surface from which the hair is to be cut, or by adjusting the respective fingers 21—22 so that they will be adjacent the cutting edge of the clipper.

The fastening device embodying the longitudinally yielding spring elements may be formed of any suitable material.

While the preferred forms of the invention have been herein shown and described, it is to be understood that various changes may be made in the details of construction and in the combination and arrangement of the several parts, within the scope of the claims, without departing from the spirit of this invention.

What is claimed as new is:—

1. As an article of manufacture, a freely attachable and detachable reversible gage or guard plate for hair clippers and comprising a plate proper having toothed portions along its front and rear edges, and means for detachably securing the same to the bottom cutter plate of the clipper in either of its positions with respect thereto.

2. As an article of manufacture, a freely attachable and detachable reversible gage or guard plate for hair clippers and comprising a plate proper having toothed portions along its front and rear edges, and means yieldingly connected with said plate for detachably securing the plate to the bottom cutter plate of a clipper in either of its positions with respect thereto by the engagement of said yielding means with the sides of the cutter plate.

3. As an article of manufacture, an attachable and detachable reversible gage or guard plate for hair clippers and comprising a plate proper having toothed portions along its front and rear edges, and means for detachably securing the plate to the bottom cutter plate of the clipper in either position with respect thereto, the teeth along one edge being of a different thickness from the teeth along the other side.

4. The combination with a clipper having a bottom cutter plate with an inclined lower surface at its teeth, and a separate and reversible guard or gage plate having teeth along its front and rear edges, the upper surface of the guard plate at both sets of teeth inclining at the same angle as the said lower surface of the bottom cutter plate and adapted to interchangeably and detachably engage the latter from end to end.

5. As an article of manufacture, a reversible gage or guard plate for hair clippers, said plate having a flat lower face, the edges of the plate on each side of said flat portion being shaped to form toothed portions inclined with respect thereto, and means intermediate said toothed portions for detachably securing the plate to the bottom cutter plate of the clipper.

6. The combination with a clipper having a bottom cutter plate provided with teeth along one edge and with an inclined lower surface at its teeth, a separate guard or gage plate having teeth along its front and rear edges, the teeth along each edge of the gage plate inclining upwardly, the upper surface of each row of teeth inclining at the

same angle as the lower surface of the said bottom plate, the teeth along one edge of the gage plate being thicker than the teeth along the other edge thereof, said gage being reversible with respect to the said bottom cutter plate, and means for securing the gage plate to the bottom cutter plate in either position with respect thereto and for free detachment therefrom.

7. A gage plate for hair clippers having toothed portions at an angle to its body portion and along opposite edges thereof, and a longitudinally yieldable spring recessed into and secured to one face of the gage plate, the ends of said spring being rigid and projecting above the gage plate for engagement with the lateral edges of the bottom cutter plate of the clipper.

8. A gage plate for hair clippers having toothed portions along opposite edges thereof, a longitudinally yieldable spring recessed into the upper face of said plate, and rigid fastening members connected with the ends of the spring and adapted to engage the side edges of the bottom cutter plate of a clipper for detachably securing the gage plate thereto.

9. As an article of manufacture a reversible gauge plate for hair clippers having toothed portions along the edges thereof, a recess extending entirely across the plate, rigid fastening clips secured within said recess and projecting above the face of the plate, one of said clips being movable in the recess toward and away from the other clip, and a resilient connection between said clips and disposed within the recess.

In testimony whereof I have signed my name to this specification, on this 24th day of January, A. D. 1929.

WILLIAM J. VAN OSDEL.