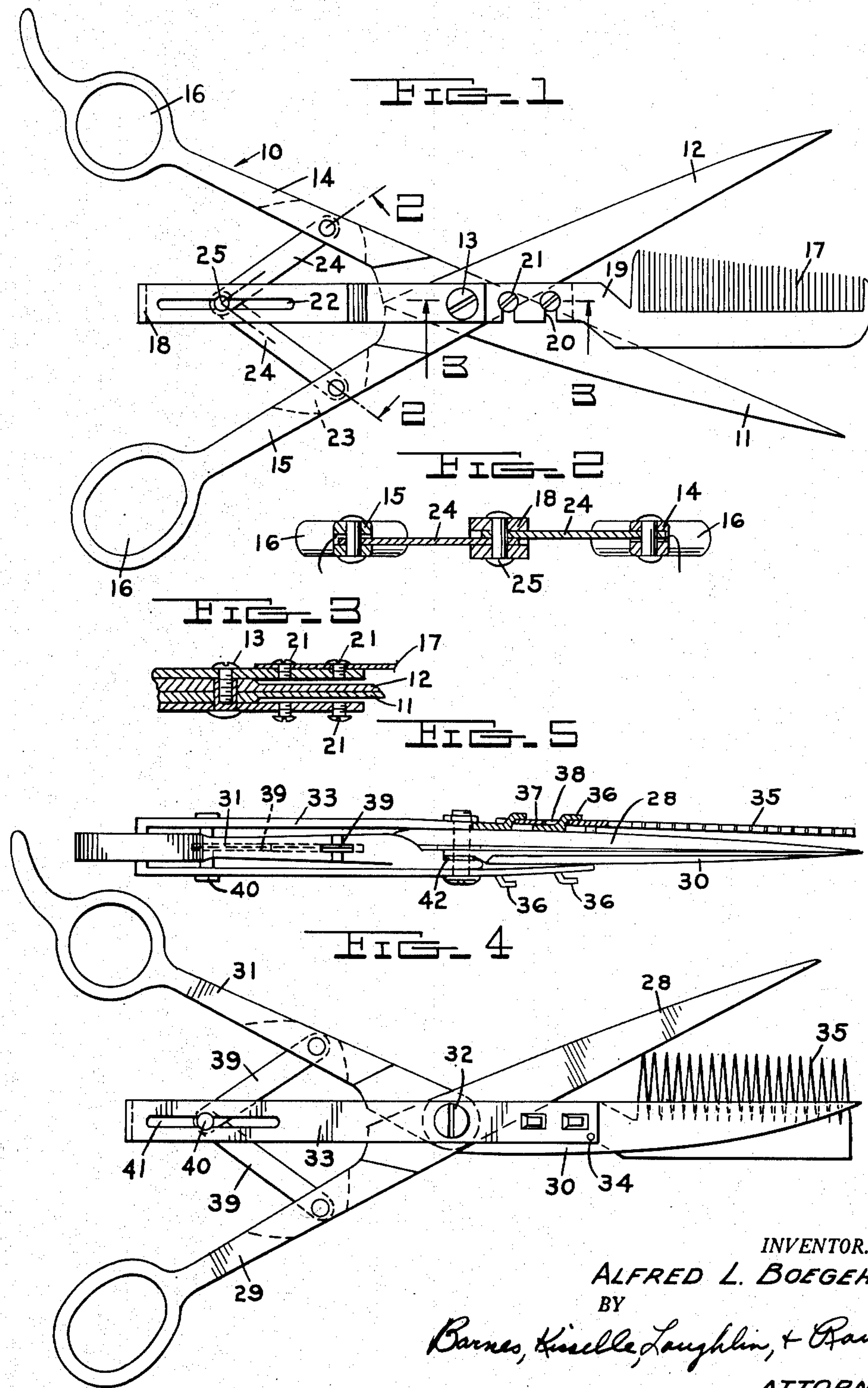


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COMBINED COMB AND SCISSORS

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## COMBINED COMB AND SCISSORS

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5 Claims. (Cl. 30—233.5)

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This invention relates to a combined scissors and comb for cutting hair.

There has been suggested heretofore the provision of a pair of scissors having a comb mounted thereon so that the combing and cutting operations used in cutting hair could be accomplished with one hand. I have found that a combined scissors and comb of this type is of real practical value only when the comb is mounted so as to properly position the hair relative to the scissors blades while it is being cut. If the comb is mounted on one of the movable blades of the scissors, the hair will be necessarily moved as it is being cut and will not be cut to the desired length or with the evenness desired.

It is accordingly an object of this invention to produce a combination comb and scissors in which the comb is mounted adjacent the blades of the scissors so as to remain stationary when the blades are opened and closed so that the hair may be positioned by means of the comb independently of the movement of the blades. More specifically, it is an object of this invention to mount a comb on a pair of scissors such that a line through the base of the comb teeth always remains substantially parallel to and adjacent the cutting line of the blades as the blades open and close. In this manner the hair can be positioned properly relative to the moving blades and may be cut evenly.

In order to render the combined comb and scissors useful for cutting hair on either side of the head or by a left or right handed operator, the scissors of this invention is constructed so that the comb may be mounted on either side of the scissors blades with the teeth of the comb pointing in either an upward or downward direction. Another novel feature of the invention resides in the provision of means for adjusting the distance between the comb and the scissors blades so as to permit cutting hair to a shorter or longer length as desired.

In the drawings:

Figure 1 is a side elevation of a pair of combined scissors and comb of this invention.

Figure 2 is a sectional view taken along the lines 2—2 in Figure 1.

Figure 3 is a sectional view taken along the lines 3—3 in Figure 1.

Figure 4 is a side elevation of a modified form of scissors of this invention.

Figure 5 is a top view of the scissors shown in Figure 4.

Referring to the drawings and particularly Fig-

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ure 1 there is shown a pair of scissors 10 having blades 11 and 12 pivoted together by means of a pivot screw and bushing 13. Blade 11 is formed integrally with a handle portion 14 and blade 12 with a handle portion 15. Handle portions 14 and 15 are provided at their ends with the customary finger loops 16 which enable the operator to open and close blades 11 and 12 with the fingers of one hand. Comb 17 is mounted on the scissors 10 by means of a comb holder 18 which is fashioned as a U-shaped strap member positioned between handles 14 and 15 and having its legs extending around each side of the scissors at pivot 13. The free ends of holder 18 are secured to the scissors at the scissors pivot by the screw and bushing 13. Comb 17 is preferably formed with an integral shank portion 19 having a pair of transversely extending slots 20. Shank 19 may, however, be formed as a separate member if desired and the comb mounted thereon. A pair of cap screws 21 threaded on and projecting outwardly from each leg of comb holder 18 adjacent the free ends thereof are spaced apart so as to be frictionally engageable with the slots 20 and thereby support the comb 17 on the comb holder in a rigid manner.

Adjacent its closed end strap member 18 is provided with longitudinal slots 22 at each side thereof. Each of the handle portions 14 and 15 are grooved or recessed as at 23 in which recesses are pivoted a pair of links 24. The links 24 are of equal length and are pivotally connected together at their other ends by a pin 25 which projects at each end into slots 22 so as to be guided in a direction longitudinally of the scissors as the scissors blades are opened and closed.

Since links 24 are of equal length, it will be appreciated that the comb holder 18 is arranged in a position bisecting the angle formed between the cutting edges of blades 11 and 12. As handles 14 and 15 are separated or opened, the pin 25 will be pulled by the links 24 along slot 22 in a direction toward the scissors pivot 13 and when the handle members are closed, pin 25 will be guided within slot 22 in a direction away from pivot 13. Comb holder 18, however, remains in a position bisecting the angle between blades 11 and 12 and comb 17 will, therefore, also remain stationary when the blades are opened and closed. Shank 19 and comb 17 are preferably shaped so that a line through the base of the comb teeth is parallel to and offset slightly in a vertical direction from a line bisecting the angle between blades 11 and 12 and slots 20 are



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designed such that the shank portion 19 may be inserted over screws 21 with the teeth of the comb pointing in either an upward or downward direction. When the scissors is to be operated with the right hand, the comb is mounted on one side of the scissors and when used in the left hand the comb is arranged on the opposite side of the scissors. Likewise, if it is desired to cut with a downward movement of the comb, the comb is arranged on holder 18 with the teeth pointing downwardly. If the operator prefers to cut with an upward stroke, the comb is secured on holder 18 with its teeth pointing upwardly.

It will be appreciated that the comb should be positioned closer to the blades of the scissors when trimming hair short than when it is desired to cut the hair longer, and means are therefore provided for adjusting the distance between the comb and the blades of the scissors. Various constructions may be utilized for obtaining adjustability of this nature. It may be accomplished in a simple and economical manner by merely forming shank member 19 of relatively thin and resilient material and shaping comb holder 18 so that the comb will be normally spaced from the blades of the scissors the distance desirable for cutting the hair long. When it is desired to trim the hair shorter the operator simply exerts slight pressure on the scissors handles so as to push the blades against the comb, the comb being prevented from movement by being flat against the head of the person whose hair is being cut.

In Figures 4 and 5 there is illustrated a modified form of the combined scissors and comb of this invention. In this embodiment blade 28 of the scissors is formed integral with a handle portion 29, the other blade 30 and the other handle member 31 being pivotally mounted on blade 28 as at 32. The comb holder 33 is likewise supported on the scissors at pivot 32 and is further secured to blade 30 by a rivet 34. Since blade 30 and holder 33 are connected together by rivet 34 and at pivot 32 it will be apparent that blade 30 is fixed relative to holder 33. The comb 35 is adapted to be removably mounted on either side of the scissors blades by means of a pair of offset ear portions 36 which are struck outwardly from each leg of holder 33. The shank portion 37 of comb 35 is provided with a pair of apertures 38 spaced apart to coincide with ears 33. Comb 35 may be arranged on either side of holder 33 by simply positioning the shank portion 37 against holder 33 so that the ears 36 project through apertures 38 and then shifting the comb longitudinally so as to engage the ears 36 with the outer face of the shank portion 37 adjacent the apertures therein.

As in the form of scissors previously described handle members 29 and 31 are connected with the comb holder 33 by means of a pair of links 39 which are pivoted together at one end by a pin 40 and pivoted to the respective handle members at their opposite ends. Pin 40 projects at each end into slots 41 formed in the legs of holder 33 so as to form a pantograph arrangement between the links 39 and the handle members 29 and 31. A spring washer 42 is positioned between blade 30 and one leg of holder 33 on pin 32 in order to maintain the necessary pressure between blades 28 and 30.

The operation of this form of scissors is similar to the scissors previously described with the exception that since blade 30 is fixed relative to holder 33, both the comb and blade 30 remain stationary when the handle members 29 and 31

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are opened and closed. In this form of the invention the line of cutting coincides with the cutting edge of blade 30 and comb 35 is arranged to be mounted on holder 33 so that a line through the base of the teeth of the comb is parallel with and spaced slightly below the cutting edge of blade 30. It will be appreciated that the scissors could if desired be used without mounting the comb 35 thereon. The scissors could be operated in the conventional manner, the blade 30 remaining stationary when the scissors handles are manipulated.

What I claim is:

1. A scissors comprising in combination a pair of blades, a fixed pivotal connection between said blades, one of said blades having a handle member fixed at one end thereof, a second handle member supported by the pivotal connection between said blades, the blade without a handle member having a fixed extension thereon extending from said pivotal connection in the direction of said handle members, and a pair of links each pivoted at one end on one of said handle members and having their other ends pivotally connected together and slidably mounted on said extension so as to fixedly position said extension between said handle members whereby when the handle members are manipulated the blade having the extension thereon remains stationary while the other blade pivots.

2. The combination as set forth in claim 1 including a comb and wherein said extension extends around the outer faces of said blades and is provided with means for mounting the comb thereon so that the comb is positioned adjacent and in a plane parallel to the plane of said blades.

3. The combination set forth in claim 1 including a comb and means on said extension for fixedly mounting the comb adjacent said last mentioned blade.

4. In combination, a scissors having a pair of blades and a pair of handles for opening and closing said blades, said handles and blades being pivotally connected together at a fixed intermediate point such that the handles and blades extend generally in opposite directions from said fixed pivotal connection, a comb holder mounted on said scissors at said pivotal connection, said comb holder having a pair of legs extending generally in the direction of said blades on opposite sides of said scissors such that one leg is disposed adjacent the outer face of one blade and the other leg is disposed adjacent the outer face of the other blade, said comb holder having a portion integral with said legs and extending from said pivotal connection generally in the direction of said handles, a pair of links pivotally connected together at one end and pivotally connected at their opposite ends with said handle members, means slidably mounting the pivotal connection between said links on said extending portion of said comb holder to maintain said support member in a fixed position on said scissors when said handles are actuated to open and close said blades, said legs each having means thereon for detachably mounting a comb on either of said legs, and a comb mounted on one of said legs and extending in a plane generally parallel to and spaced from the plane of said blades.

5. The combination set forth in claim 4 wherein said comb holder is U shaped with the bight portion thereof disposed between said handles and with the leg portions thereof



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mounted on the pivotal connection between said blades and extending from said last mentioned pivotal connection on opposite sides of said scissors.

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