June 1, 1971 S. BROUSSARD, SR 3,581,396

COMB ATTACHMENT FOR ELECTRIC SHEARS

Filed June 12, 1969 2 Sheets-Sheet 1

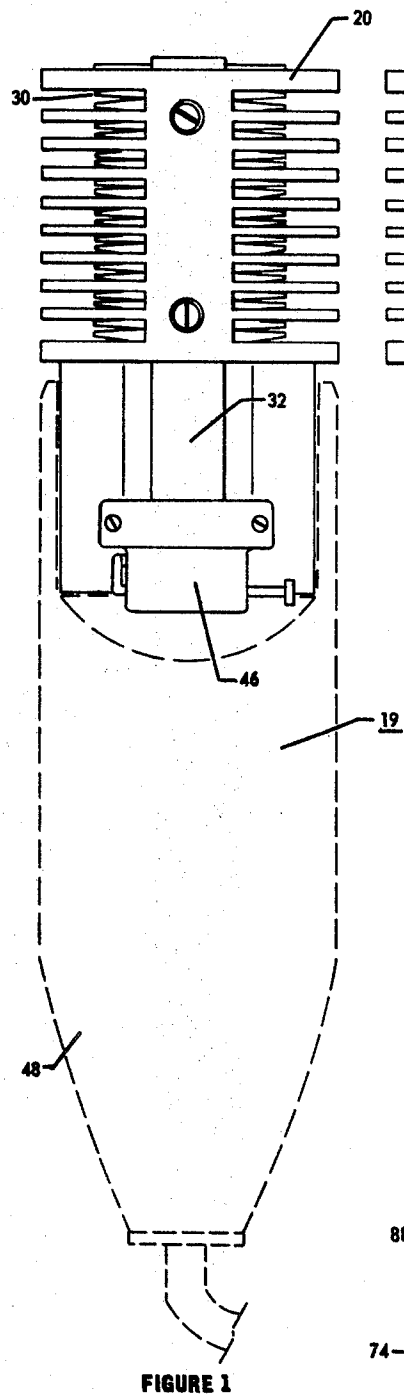


FIGURE 1

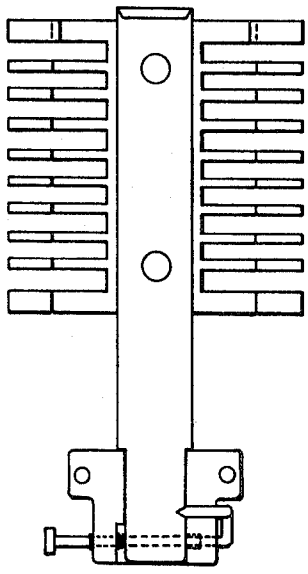


FIGURE 4

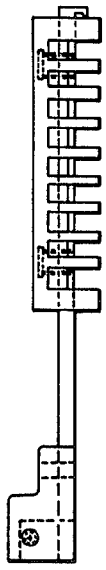


FIGURE 8

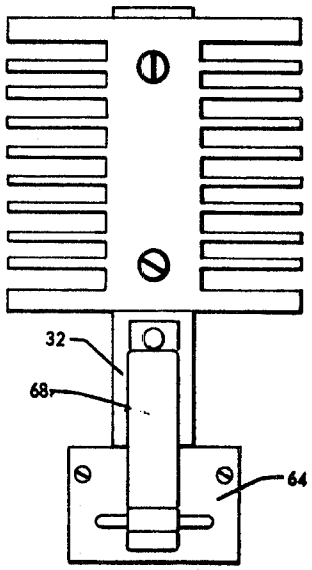


FIGURE 9

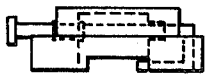


FIGURE 5

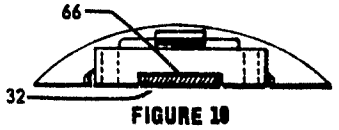


FIGURE 10

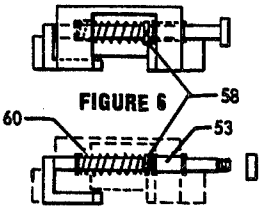


FIGURE 6

FIGURE 7

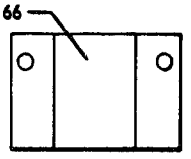


FIGURE 11

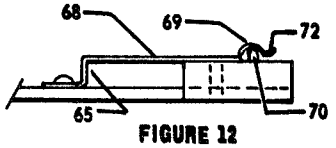


FIGURE 12

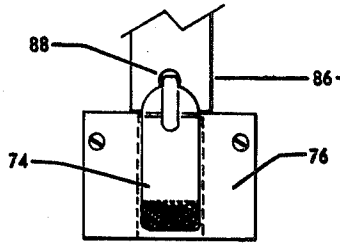


FIGURE 14

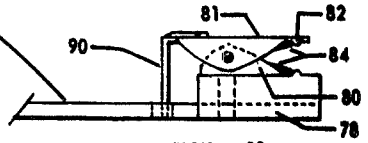


FIGURE 13

INVENTOR.
STAFFAS BROUSSARD SR.

BY James B. Lake Jr.
Pat. Atty.

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FIGURE 3

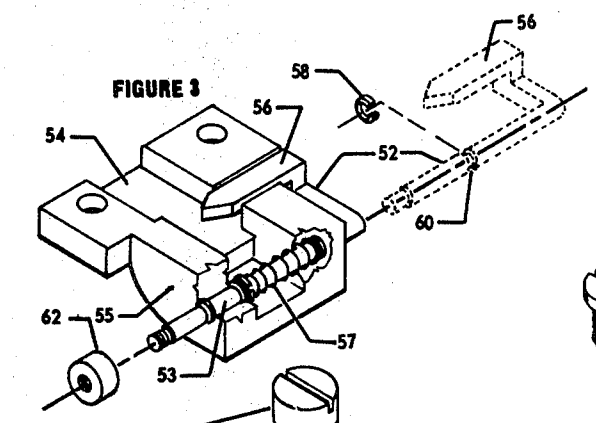


FIGURE 2

INVENTOR.
STAFFAS BROUSSARD SR.

BY James B. Fisher Jr.
Pat. Atty.

United States Patent Office 3,581,396 Patented June 1, 1971

3,581,396

COMB ATTACHMENT FOR ELECTRIC SHEARS

Staffas Broussard, Sr., 2110 St. Bernard Ave., New Orleans, La. 70119

Filed June 12, 1969, Ser. No. 832,735
Int. Cl. B26b 19/38
U.S. Cl. 30—201 6 Claims

ABSTRACT OF THE DISCLOSURE

A double comb attachment for double action electric hair shears in which the cutting action is longitudinal rather than transverse.

The invention relates generally to instruments for cutting hair and more particularly to double edged combs for use with electric shears.

It is old in the art to provide snap-on single combs for use on hair clippers to mechanically establish the length to which the edge of the hair will be clipped.

Double acting electric shears have just been introduced for cutting hair beyond the edge or fringes on which clippers are used. Usually hair is cut an estimated length by hand shears as it is combed out with a hand comb.

It is an object of the invention to provide means for mechanically establishing the length hair is to be cut rather than by estimation.

Another object of the invention is to provide a double comb for attachment on electric shears for combing the hair out in opposite directions for simultaneous cutting by the double action electric shears.

Another object of the invention is to provide positive snap-on catches for rigidly attaching a double comb to an electric shear.

Other object sand a clearer understanding of the invention may be had by referring to the following description and claims, and the drawings in which:

FIG. 1 is a plan view of the invention operatively attached to electric shears,

FIG. 2 is an enlarged isometric view exploded to show the various parts of the invention and their relative positions,

FIG. 3 is a perspective view from the bottom of a latching device,

FIG. 4 is an under view of the preferred embodiment of the invention,

FIGS. 5, 6 and 7 are end views of the preferred embodiment of a catch showing the salient features,

FIG. 8 is a side view of the embodiment of FIG. 4,

FIG. 9 is a plan view of a second embodiment of the invention,

FIGS. 10, 11 and 12 are end, bottom and side views respectively of a second embodiment of a catch showing salient features, and

FIGS. 13 and 14 are plan and side views of a third embodiment of a catch showing salient features.

Referring to FIGS. 1, 2 and 3, the invention comprises a new combination of electric hair-cutting shears **19** and a double comb **20** having teeth **22** of a desired thickness. The outboard or leading double tooth **24** of said comb is inwardly extended to form hooks **26** that are adapted to engage the outboard ends **28** of the stationary blade **30** of the double action shears, thereby retaining the front end of said comb on the front end of said shears.

A fastening bar **32** is secured to the double comb **20** by bolts **34** engaging through holes **36** in the comb in tapped holes **38** defined in the fastening bar **32**. A hook **40** is provided on the outer end of the fastening bar for engaging the end of the stationary blade of the

shears. Shoulders **41** are defined adjacent the end **42** of the fastening bar, and a triangular notch **44** is defined intermediate said shoulders and the end **42**.

A catch **46** is provided to engage the inboard end of the fastening bar **32** up to said shoulders **41**. The catch is bolted by bolts **47** to the shears body **48** through the stationary blade **30** to engage in tapped holes **50** defined in said body **48**. A transverse locking pin **52** is slidably mounted in a bushing **53** provided in catch body **55** and is adapted to engage and disengage with notch **44** of the fastening bar **32**. Said locking pin **52** has a reverse end **56** that is chamfered to be retracted by the squared inner end **42** as it is inserted into a channeled recess **54** in said catch and to fit in said notch **44**. A spring **57** is mounted in compression on said transverse locking pin **52** engaging against a side of the catch body **46** and a split washer **58** mounted in a peripheral groove **60** defined around the pin **52**. A pushbutton end **62**, oppositely disposed from the reversed chamfered end **56** of pin **52**, is manually actuated against the compression of said spring **57** to retract said chamfered end **56** from the notch **44** and thereby release the fastening bar **32** and attached double comb **20** for slidably retracting from engagement with the electric shears. See FIGS. 4–8.

Referring to FIGS. 9–12 another embodiment of the invention comprises a catch **64** having a body **65** defining a channel **66** similar to channeled recess **54** of the preferred embodiment, for receiving an end of a fastening bar **32**. A leaf spring **68** is rigidly attached by an end to the fastening bar **32**. The oppositely disposed end is S shaped and adapted to snap engage in the inboard curve **69** of said S a transverse lug **70** fixed to said catch body **65** when said end of the fastening bar **32** is fully inserted in said channel **66**. The outer curve **72** of said S serves as a handle to lift the leaf spring **68** clear of lug **70** and thereby release the fastening bar and attached double comb **20** from the shears.

Referring to FIGS. 13 and 14, a third embodiment of the invention comprises another variation of latching the double comb on the shears. A catch **74** having a body **76** defines a channel **78** similar to the channels **54** and **66** of the preceding embodiments for receiving an end of a fastening bar **32**. A trunnion **80** is fixed to the body **76**. An L-shaped locking pin **82** is pivotally mounted on the trunnion **80** and a U-shaped spring **84** is compressed between one leg **81** of said L-shaped locking pin **82** and the catch body **76**. A fastening bar **86** having double combs attached at the outer end defines a hole **88** adapted to receive the end of depending leg **90** of said locking pin **82**. To operate, the end of leg **81** is manually depressed against the compression of spring **84** to pivot locking pin **82** in its trunnion **80** to lift depending leg **88** thereby allowing the insertion of the end of a fastening bar **86** into channel **78**. Releasing the end of leg **81** causes the end of leg **90** to engage in said hole **88** locking the fastening bar and attached double comb in the electric shears. To release, one end of leg **81** is depressed and the fastening bar retracted.

To use the invention, the double comb **20** attached as previously described to the fastening bar **32**, is held in one hand and the shears **19** in the other. The end **42** of the fastening bar is inserted into the channeled recess **54** (of the preferred embodiment) of the catch **46**. With the fastening bar laying flat against the stationary blade **30** of the shears, the fastening bar and attached double comb is pushed home up to shoulders **41** into the channeled recess **54**, the hooked ends **26** of the comb end teeth and the hooked end **40** of the fastening bar **32** engaging respectively over the tips of the end stationary blade double teeth and the end of the stationary blade. As the end **42** of the fastening bar passes into

the recess it engages the chamfered reversed end **56** of the locking pin **52** to retract the pin to snap engage in notch **64** simultaneously with the hooked engagement of the comb teeth and fastening bar end, thereby locking both ends of the fastening bar and comb to the shears. The invention is removed from the shears by manually pressing the push button end **62** of the locking pin **52** and pulling the comb to disengage the hooked ends from the stationary blade and the fastening bar from the channeled recess **54**.

The second embodiment is operated similarly except the end **72** of the blade spring **68** is manually raised to release the end of the fastening bar to slide from the channel recess.

The third embodiment does not snap engage and the catch **74** must be manually operated as heretofore explained in order to engage and disengage the invention to and from the shears.

What is claimed is:

1. A double-comb attachment for double-acting barber shears having toothed double blades extending longitudinally from one end of said shears, one said blade being stationary and fixed by an end to the shears, said double-comb attachment comprising in combination: a comb having oppositely disposed ends and sides, said sides having comb teeth adjacent one said end, being straight adjacent the other said end, and refining shoulders spaced longitudinally from said other end, said comb end for use in combing hair and said straight-sided end for slidably engaging in a channel up to said shoulders; and complementary fastening means at the respective ends of said comb and the fixed end of said stationary blade for releasably locking said stationary blade and comb against relative movement therebetween.

2. Double-comb attachment as described in claim **1** wherein said complementary fastening means comprise: a longitudinally extending hook on one said end of said comb adapted to engage around the outboard end of said stationary blade; a transverse hook on each of the oppositely disposed teeth adjacent said one end of the comb for engaging over the corresponding end teeth of said stationary blade, said hooks for locking the outboard ends of said comb and stationary blade together; and manually releasable catch means mounted on the fixed end of said stationary blade and defined adjacent the straight end of the comb for cooperation in automatically locking the straight end of the comb to the fixed end of the stationary blade up to said shoulders.

3. Complementary fastening means as described in claim **2** wherein said catch means comprises: a recess defined adjacent the straight end of said comb and intermediate said end and said shoulders; a catch body defining a longitudinally extending channel for receiving the straight end of said comb up to said shoulders; a locking pin movably mounted in said catch body, said locking pin having a recess-engaging end adapted to engage the recess defined in said comb, and a manually operable end for disengaging said pin from said recess; and biasing means mounted on said locking pin and adapted to bias said pin for its recess-engaging end to automatically engage in the recess defined in said comb.

4. Catch means as described in claim **3** wherein said recess is V shaped and defined in a side of said comb, and said recess-engaging end of said locking pin is complementary shaped to engage in said V shaped recess.

5. Catch means as described in claim **3** wherein said recess is a hole defined in said comb and said locking pin is L shaped and pivotally mounted on said catch body with one leg depending and adapted to engage in said hole when said comb is inserted in said catch body up to said shoulders.

6. A double comb attachment as described in claim **1** wherein said fastening means comprises: a longitudinal hook shaped on the toothed end of said comb and adapted to engage around the corresponding end of the stationary blade; hooks formed on the respective oppositely disposed end teeth of said comb for engaging the corresponding end teeth of said stationary blade, said hooks when slidably engaged, fasten the tooth end of the comb to the free end of said stationary blade; and a catch mounted on the fixed end of said stationary blade comprising a catch body defining a channel for receiving the other said end of the comb up to the shoulders, and a blade spring mounted on said comb by one of its ends, the free end of said spring defining an S shape; and a transverse shoulder defined on said catch body and adapted to engage a convex curve of said S-shaped blade spring end when the end of said comb is inserted in said channel of the catch body up to said shoulders.

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GRANVILLE Y. CUSTER, JR., Primary Examiner