May 27, 1952 E. WILSON 2,598,330

SAFETY GUARD FOR HAIR STRAIGHTENING COMBS

Filed Dec. 1, 1949 2 SHEETS—SHEET 1

FIG. 1.

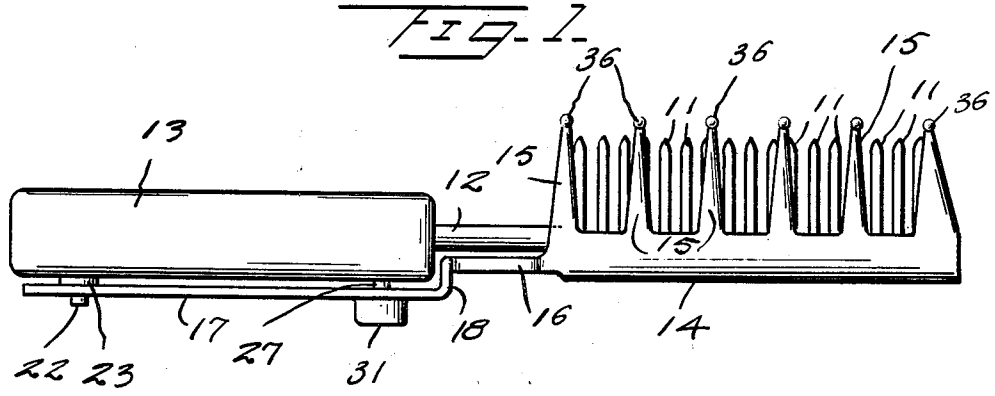


FIG. 2.

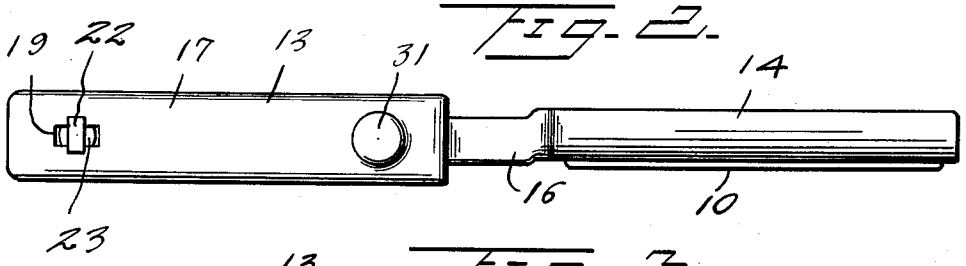
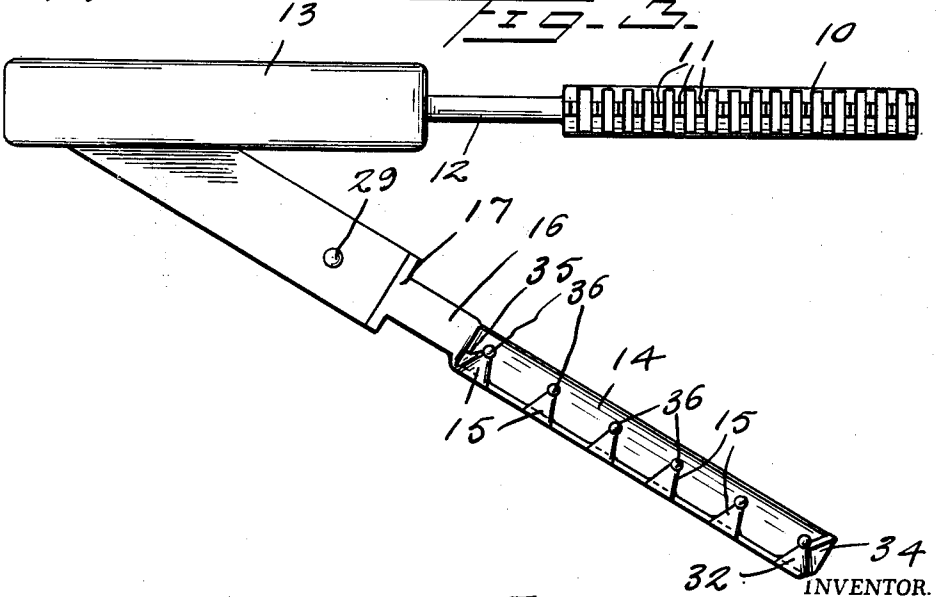


FIG. 3.



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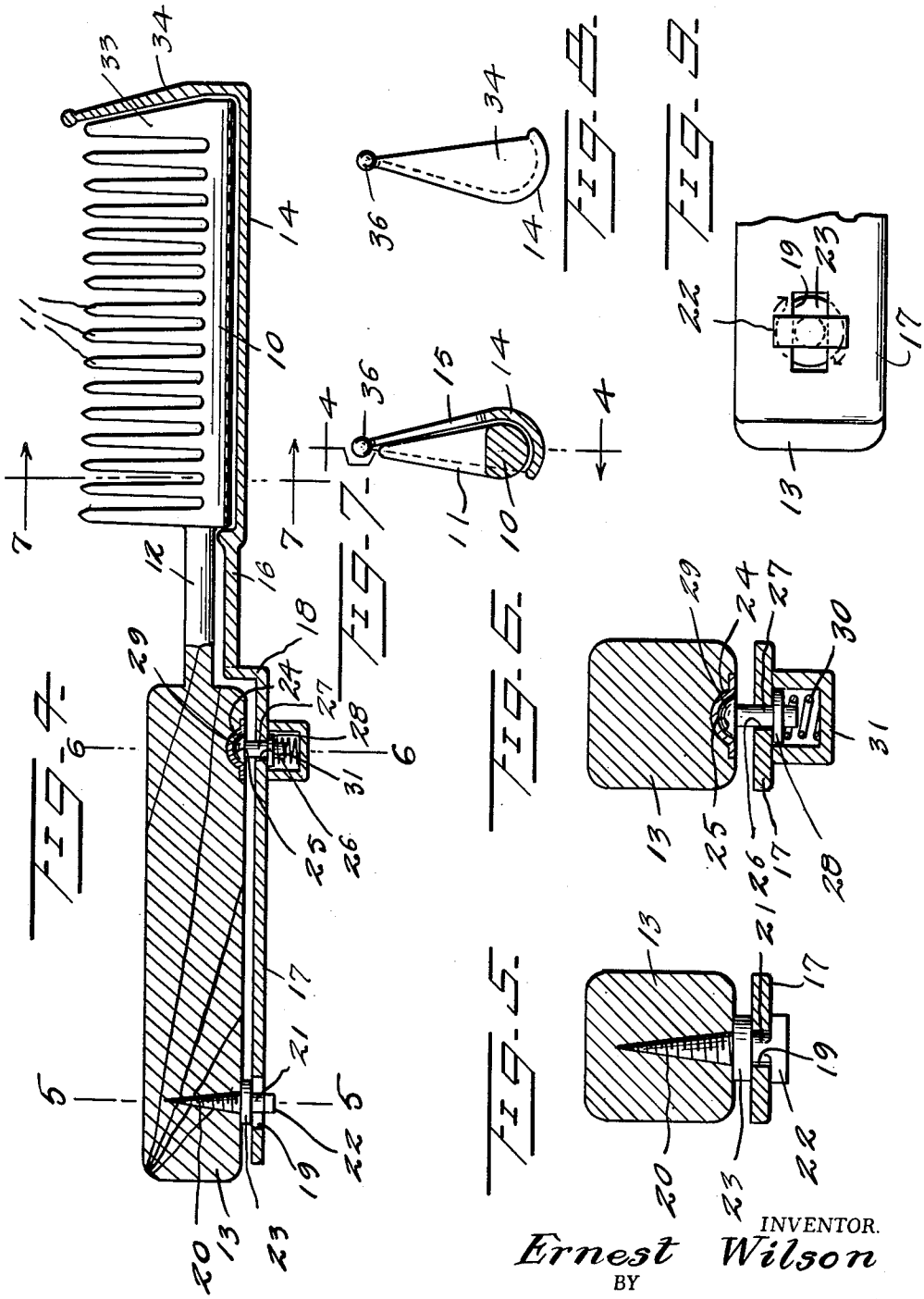
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May 27, 1952 E. WILSON 2,598,330

SAFETY GUARD FOR HAIR STRAIGHTENING COMBS

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2,598,330

SAFETY GUARD FOR HAIR STRAIGHTENING COMBS

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6 Claims. (Cl. 132—14)

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This invention relates to combs adapted to be used in heated condition to remove unwanted curls and kinks from the hair and the primary object of the invention is to provide such a comb which is equipped with a guard preventing the heated portions of the comb from coming in contact with the scalp but permitting free use of the comb.

Another object of the invention is to provide a comb of the character indicated above, the guard of which is pivotally and removably secured to the comb in such a manner that the guard is disposed laterally of the comb when in working position and is adapted to be pivoted away from the comb into position for removal therefrom.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved safety guard for hair straightening combs whereby certain advantages are attained, as will be hereinafter more fully set forth.

In order that my invention may be better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a side view in elevation of a comb and guard in accordance with the invention;

Figure 2 is a bottom view in plane of Figure 1;

Figure 3 is a top view in plan of the comb and guard, the latter being shown as pivoted out of working position;

Figure 4 is a sectional view taken substantially on the line 4—4 of Figure 7, with parts in elevation;

Figure 5 is a view in section taken on the line 5—5 in Figure 4;

Figure 6 is a view in section taken on the line 6—6 in Figure 4;

Figure 7 is a view in section taken on the line 7—7 in Figure 4;

Figure 8 is an end view in elevation of the guard, and

Figure 9 is a partial bottom view in plan of the handles of the guard and of the comb connected into each other.

The comb and guard as embodied herein comprise a metal comb body 10 from which metal comb teeth 11 extend in the usual manner. The comb body 10 and the teeth 11 are adapted to be heated in order to facilitate the elimination of unwanted curls and kinks from hair. A stem 12 extends rearwardly from the body 10 of the comb and a handle 13, preferably made from wood and of approximately square cross section, the corners of which may be rounded, is secured in any suitable manner on the stem 12.

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A guard body 14 is preferably made from mild sheet metal and has a concavely curved cross section so that it partly surrounds the back of the comb 10 as shown best in Figure 7. From the edge of the guard body 14 a plurality of guard teeth 15 extend so that they lie adjacent to outside edges of comb teeth 11 when the guard is arranged in working position. The guard teeth 15 are disposed equi-distantly from each other and the distances between said guard teeth 15 is comparatively wide in relation to the distance between the comb teeth 11 as best shown in Figure 1.

From the guard body 14 a guard handle bar 16 extends rearwardly and is located along the stem 12 when the guard is arranged in working position on the comb. A guard handle 17 is connected with the handle bar 16 by means of an offset 18 extending at an angle between the guard handle 17 and the handle bar 16, so that the guard handle 17 extends along the back of the comb handle 13 when the guard is in working position.

A longitudinal slot 19 is provided in the guard handle 17 adjacent to the free end and on the longitudinal center line thereof. A wood screw 20 has a round shank 21 and an elongated head 22 of rectangular cross section. A washer 23 is slid over the wood screw 20 onto the shank 21 and the wood screw is screwed into the back of the handle 13 adjacent to the free end and on the longitudinal center line thereof so that the elongated head 22 extends at right angles to the longitudinal center line of the comb handle 13.

Adjacent to the other end of the comb handle 13 and on the longitudinal center line thereof a hollow 24 is formed which is lined with a concave metal lining forming a socket 25. A hole 26 is provided in the guard handle 17 and is located so that it is coaxial with the socket 25 when the guard is in working position. A lock pin 27 is slidably disposed in the hole 26 and on the portion of the pin 27 extending beyond the back of the guard handle 17 a stop washer 28 is mounted, for instance by soldering, welding, or the like, and on the end portion of the pin 27 remote from the stop washer 28 a round head 29 is formed fitting into the socket 25.

A spring 30 surrounds the end portion of the pin 27 remote from the head 29 and extends beyond the stop washer 28. One end portion of the spring 30 engages the stop washer 28 and the other end portion is engaged by the end wall of a cap 31 secured to the back of the guard handle 17 coaxially with the hole 26 so that the spring urges the stop washer 28 toward the back of the

guard handle. The cap 31 covers also the stop washer 28.

To attach the guard on the comb the elongated screw head 22 is slid through the slot 19 in the guard handle 17. Thereby the guard handle is arranged at right angles to the comb handle 13. The washer 23 on the screw shank 21 spaces the guard handle from the comb handle and then the guard handle 17 is pivoted about the screw shank 21 until the two handles are arranged nearly parallel to each other and the head 29 abuts the edge of the comb handle 13. A slight pressure against the guard handle 17 will cause the head 29 to slide onto the back of the comb handle 13 and will force the spring biased pin 27 to slide further into the cap 31. When the two handles 13 and 17 are alined with each other the head 29 is forced by the spring 30 to enter the socket 25 securing the guard in working position until a lateral pressure against the guard handle 17 will pivot the guard into the position shown in Figure 3, whereby the head 29 is released from its engagement with the socket 25.

When the guard is in working position the foremost tooth 32 of the guard extends slightly beyond the foremost tooth 33 of the comb and a narrow front wall 34 extends across the front end of the back of the guard 14 and tapers upwardly toward the guard tooth 32.

A narrow tapering wall 35 is formed on the guard tooth 15 directly adjacent to the handle bar 16. The tips of the guard teeth 15 and 32 are equipped with solid balls 36 of the heat treated metal and the length of the guard teeth is such that said balls 36 are disposed beyond the tips of the comb teeth, so that these latter are prevented from touching the scalp when the comb is used while the guard is in working position.

I claim:

1. A comb of the class described having a back, a plurality of teeth formed on said back and a handle, including a guard to prevent contact of the comb teeth with a body adjacent thereto comprising a body, a plurality of teeth formed on the back and a handle provided with a longitudinal slot located adjacent to the end of the guard handle remote from the guard body, a screw screwed into the back of the comb handle, a cylindrical shank on said screw and an elongated head on the shank, the head being disposed transversely to the comb handle and adapted to slide through the slot in the guard handle when the guard is arranged at right angles to the comb, the guard being pivotal about said shank relative to the comb, and a washer mounted on the shank and spacing the guard handle from the comb handle.

2. A comb of the class described having a handle, a back and a plurality of teeth formed on said back, including a guard to prevent contact of the comb teeth with a body adjacent thereto comprising a handle, a body and guard teeth, means for pivotally and detachably connecting the guard handle to the comb handle whereby the guard may be pivoted laterally of the comb, and means for preventing accidental pivotal movement of the guard laterally from the comb teeth, the means for preventing accidental lateral pivotal movement of the guard comprising a socket in the comb handle and a spring biased lock pin slidably arranged in the guard handle and adapted to engage the socket.

3. A comb of the class described having a handle, a back and a plurality of teeth formed on said back, including a guard to prevent contact of the comb teeth with a body adjacent thereto comprising a handle, a body and guard teeth, means for pivotally and detachably connecting the guard handle to the comb handle whereby the guard may be pivoted laterally of the comb, and means for preventing accidental pivotal movement of the guard laterally from the comb teeth, the guard teeth being spaced farther apart than the teeth of the comb and extending beyond the tips of the latter.

4. A comb of the class described having a handle, a back and a plurality of teeth formed on said back, including a guard to prevent contact of the comb teeth with a body adjacent thereto comprising a handle, a body and guard teeth, means for pivotally and detachably connecting the guard handle to the comb handle whereby the guard may be pivoted laterally of the comb, and means for preventing accidental pivotal movement of the guard laterally from the comb teeth, the tips of the guard teeth extending beyond the tips of the comb teeth and including balls securely mounted on the tips of the guard teeth.

5. A comb of the class described having a handle, a back and a plurality of teeth formed on said back, including a guard to prevent contact of the comb teeth with a body adjacent thereto comprising a handle, a body and guard teeth, means for pivotally and detachably connecting the guard handle to the comb handle whereby the guard may be pivoted laterally of the comb, and means for preventing accidental pivotal movement of the guard laterally from the comb teeth, the foremost guard tooth extending slightly beyond the foremost comb tooth and including an end wall extending from the front edge of the foremost guard tooth across the guard body and tapering toward the tip of said guard tooth.

6. A comb of the class described having a handle, a back and a plurality of teeth formed on said back, including a guard to prevent contact of the comb teeth with a body adjacent thereto comprising a handle, a body and guard teeth, means for pivotally and detachably connecting the guard handle to the comb handle whereby the guard may be pivoted laterally of the comb, and means for preventing accidental pivotal movement of the guard laterally from the comb teeth, the guard body including a back which is formed concave and the guard teeth extending from one edge of said back, the concave back being adapted to partly surround the comb back when the guard is arranged in working position and the guard teeth being arranged laterally of the comb teeth in that arrangement of the guard.

ERNEST WILSON.

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