

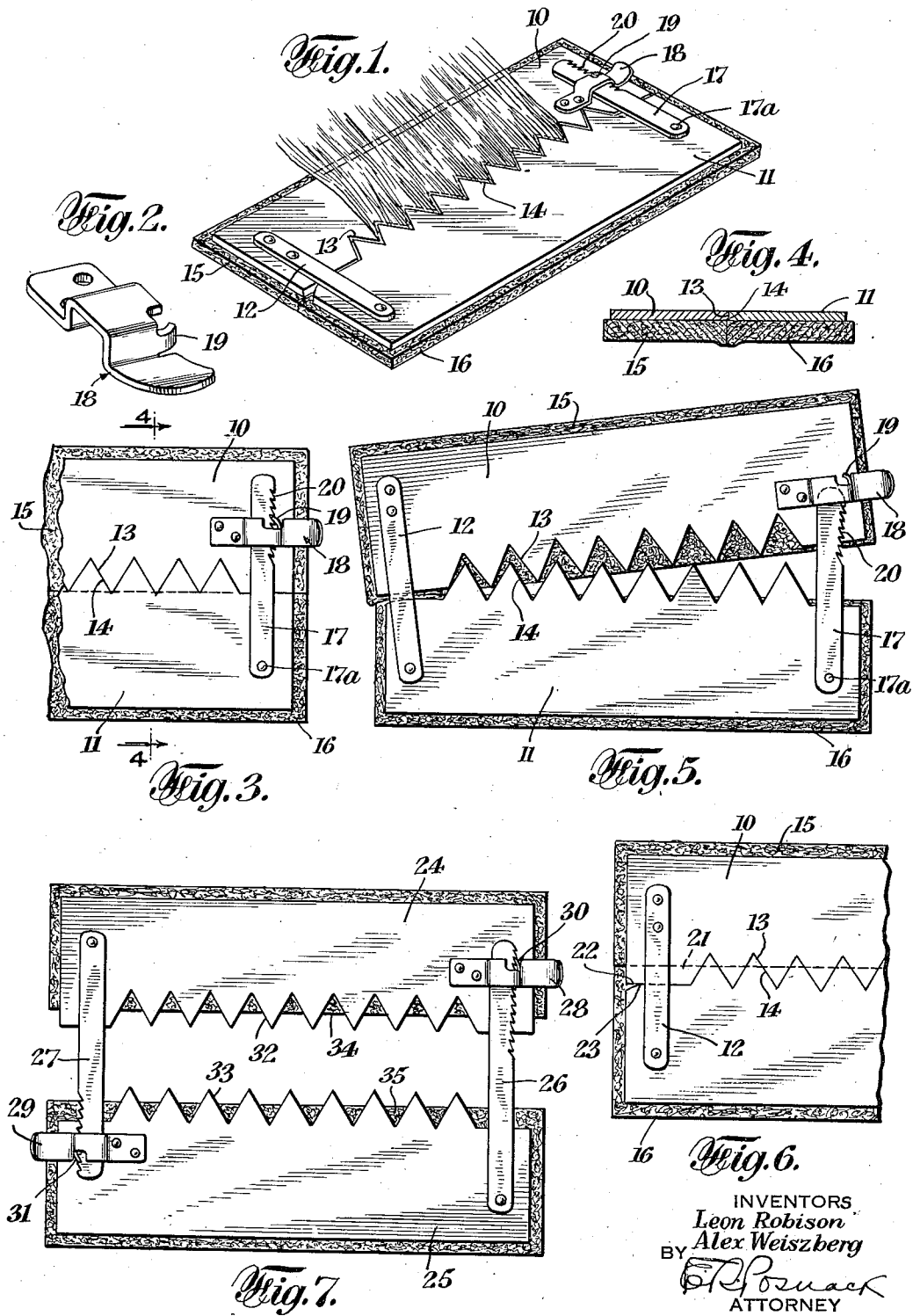
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HAIR WAVING GUARD

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HAIR WAVING GUARD

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8 Claims. (Cl. 132—36.1)

This invention relates to a hair waving guard adapted for use as a scalp protector during the operation of waving or curling hair.

Various means have heretofore been used to protect the scalp, particularly against burns, during a thermo-mechanical hair curling operation. Most devices for accomplishing this purpose generally contain two clamping members adapted to hold therebetween a strand of hair,—these members having the engaged portions thereof in overlapping relation to create a seal for excluding steam and keeping the heat generated by the apparatus from reaching the scalp. Where overlapping members are employed, however, the hair clamped therebetween generally becomes distorted, with resulting unsightly undulations or uneven waves therein. To overcome these disadvantages we have conceived this invention whereby such undesirable results are obviated, and whereby the scalp is thoroughly protected from the dangers to which it is generally exposed during the hair waving process.

Not only has it always been deemed imperative to protect the scalp from burns by conduction, but also to prevent the leakage thereon of lotions generally used in the hair waving process and of steam produced thereby. To accomplish this purpose, a felt pad is occasionally introduced intermediate the hair waving apparatus and the scalp, the pad containing therein a slit through which a strand of hair is drawn for holding same between suitable clamping members. This entails considerable inconvenience due to the difficulty of opening up the slit and pulling the hair therethrough. Furthermore, inasmuch as the usual type of pad employed for this purpose is not of yieldable material, repeated openings of said slit results in the creation of a permanent aperture through which the lotion or steam can leak. It is hence another one of our objects to obviate this disadvantage by enabling a leak-proof pad of this nature to be operatively employed in conjunction with the clamping members of the guard constituting our invention. And it is still another object of this invention to permit the clamping members necessarily employed in a device of this kind to be releasably and adjustably held in operative engagement when applied to strands of hair of various thicknesses.

Other objects, features and advantages will appear from the drawing and the description hereinafter given.

Referring to the drawing,

Figure 1 represents a perspective view of the

hair waving guard constituting our invention, showing a strand of hair clamped thereby.

Figure 2 is an enlarged perspective view of the catch shown as an element of the device of Figure 1.

Figure 3 is a fragmentary plan view of the structure of Figure 1, showing the latch and catch in locked position.

Figure 4 is a transverse section of one form of this device showing the two sections of the felt pad in compressible engagement when the clamping members are in their operative clamping positions.

Figure 5 is a plan view of this invention, showing the clamping members separated.

Figure 6 is another fragmentary plan view of a form of this invention, showing the relationship of the line of contact of the two felt sections of the pad to the contiguous abutting edges of the clamping members, and

Figure 7 shows another form of our invention where the clamping members are adapted for slidable coaction.

In the drawing, the clamping members 10 and 11 are made of insulating material, and are pivotally joined by the link 12, said members containing the serrated or toothed edges 13 and 14 respectively, adapted for complementary abutting engagement by the registry of the teeth on one member with the notches on the other. Underlying the said members are the two pads 15 and 16 made of felt or any other soft insulating material adapted for the purpose. The clamping member 11 is provided with a swingable latch 17, mounted at 17a and adapted for locking engagement with the spring catch 18 secured to member 10,—said catch containing thereon the element 19 adapted for operative engagement with any of the teeth 20 on the said latch.

In the operation of this device, the clamping members 10 and 11 are separated, and a strand of hair inserted therebetween, and then the said members are brought together until the edges 13 and 14 thereof are in complementary engagement to clamp the said strand of hair therebetween. The latch 17 is then swung into place underneath the catch 18 whereupon, due to the resiliency of the said catch, the element 19 will engage a tooth on the latch to hold the members 10 and 11 in their clamping positions.

Inasmuch as the hair-engaging edges 13 and 14 are in abutable relation, and not overlapping one another, the strand of hair therebetween will not be unduly distorted,—and yet the guard, because of its insulating properties, will prevent

any of the heat of the hair waving apparatus from passing therethrough to the scalp. The complementary engagement of the said serrated edges 13 and 14, held together by means of the latch 17 and catch 18, prevent any seepage there-
 5 through of steam or the lotion employed for the purpose. Should any liquid manage to seep therethrough, it will be prevented from making any further downward progress due to the fact
 10 that the two pads 15 and 16 are in abutting engagement,—thereby providing additional protection to the scalp. It should further be noted that the heat-insulating effect of this device is enhanced by the heat-resisting property of the pad
 15 itself.

It is preferable to have the width of the pads 15 and 16 so designed that upon a closing of the clamping members these sections will be in compressed abutting engagement, such as is indicated in Figure 4,—thereby providing further
 20 insurance against the seepage of the liquid or steam therethrough.

Inasmuch as the element 19 of the catch 18 is engageable with any one of the teeth on the latch 17, it is obvious that this device can be adjustably used with strands of hair of various thicknesses, the said locking elements being adapted for cooperable coaction at a plurality of points along a line transverse to the engaged
 25 edges of the clamping members. As a further protective measure, it is desirable to have the line of engagement 21 (see Figure 6) of the two pads underlying the abutting serrated portions of the engaging edges of the clamping members, and offset with respect to the abutting smooth portions 22 and 23 thereof.

Although a pivotal arrangement of the two clamping members is preferred, it is also within the contemplation of our invention to have these
 40 members adapted for mutual abutable engagement in other ways, such as by having said members slidably movable with respect to each other, as indicated in Figure 7. In this modification, the members 24 and 25 each contain a toothed
 45 latch-rail 26 and 27 respectively, adapted for operative engagement with the catches 28 and 29 which contain the tooth-engaging elements 30 and 31 respectively. It is obvious that the two members 24 and 25 can be slidably moved to or
 50 away from each other, and can be held locked in any position due to the cooperable coaction of said elements 30 and 31 with the teeth on the members 26 and 27. The clamping members of this modification also contain the toothed or serrated edges 32 and 33 adapted for complementary
 55 abutting engagement,—said clamping members having associated therewith the felt pads 34 and 35,—the entire combination functioning in a manner similar to the form of our invention disclosed in Figure 1.

It is of course understood that the various embodiments above described and shown in the drawing are illustrative of our invention and not employed by way of limitation, inasmuch as numerous changes and modifications may be made within the scope of the appended claims without departing from the spirit of this invention.

What we claim is:

1. In a hair waving guard, the combination of
 70 a pair of movable coacting members in substantially the same plane and containing complementary serrated edges in facing relation to each other and adapted for mutual abutable engagement for clamping therebetween a strand of
 75 hair, and means for detachably holding said

edges in operative engagement with said strand of hair, said means comprising cooperable locking elements one on each of said members, one of said elements extending transversely across said serrated edges when in their clamping positions and being operatively engageable at a plurality of points therealong with the other element.

2. In a hair waving guard, the combination of a pair of hinged members made of insulating
 10 material, each containing a toothed edge adapted for abutable complementary engagement with the other along the entire length thereof for clamping therebetween a strand of hair, and adjustable locking means for releasably holding said
 15 edges in their hair-clamping position, said locking means comprising a swingably mounted toothed latch on one of said members, and a releasable spring catch on the other member, said catch having thereon an element adapted for engagement with the teeth on said latch to hold
 20 said members against separation when in their operative positions.

3. A hair waving guard comprising, in combination, a pair of movable coacting members in
 25 substantially the same plane and containing adjacent complementary serrated edges adapted for mutual abutable engagement for clamping therebetween a strand of hair, a soft and pliable pad attached to the undersurface of each of said
 30 members, the adjacent edges of said pads being adapted for abutable engagement along the length thereof upon the abutting engagement of said serrated edges, and means for releasably holding said edges in operative engagement with
 35 a strand of hair therebetween.

4. A hair waving guard comprising, in combination, a pair of movable coacting members in substantially the same plane and containing adjacent complementary serrated edges adapted for
 40 mutual abutable engagement for clamping therebetween a strand of hair, a soft and pliable pad attached to the undersurface of each of said members, the width of said pads being such that upon the abutting engagement of said serrated
 45 edges the pads will be in compressed abutting engagement at their adjacent edges, and means for releasably holding said edges in their hair-clamping positions.

5. A hair waving guard comprising, in combination, a pair of hinged members made of insulating material and positioned in substantially the same plane, each containing a toothed edge adapted for abutable complementary engagement with the other along the entire length thereof for clamping therebetween a strand of hair, a soft and pliable pad attached to the undersurface of each of said members, the width of said pads being such that upon the abutting engagement of said toothed edges the pads will be in compressed abutting engagement at their adjacent edges, and adjustable locking means for releasably holding said edges in their hair-clamping positions.

6. A hair waving guard comprising, in combination, a pair of coacting abutable members in substantially the same plane and, the abutable edges of each of said members containing a toothed portion and a substantially smooth portion, said portions on one member being adaptable
 70 for abutting complementary engagement with those on the other member, a soft and pliable pad attached to the undersurface of each of said members, the adjacent edges of said pads being adapted for abutting engagement along a line
 75

underlying the abutting toothed portions of said members and offset with respect to the abutting smooth portions thereof, and means for releasably holding said members in abutting engagement.

7. A hair waving guard comprising, in combination, a pair of hinged abutable members made of insulating material, the abutable edges of each of said members containing a toothed portion and a substantially smooth portion, said portions on one member being adapted for abutting complementary engagement with those on the other member, a felt pad attached to the undersurface of each of said members, the adjacent edges of said pads being adapted for abutting engagement along a line underlying the abutting toothed portions of said members and offset with respect to the abutting smooth portions thereof, and adjustable locking means for releasably hold-

ing said members in abutting engagement, said locking means comprising a swingably mounted toothed latch on one of said members, and a releasable spring catch on the other member, said catch having thereon an element adapted for engagement with the teeth on said latch to hold said members against separation when in their operative positions.

8. In a hair waving guard, the combination of a pair of coacting slidably mounted insulating members in substantially the same plane and containing complementary serrated edges in facing relation to each other and adapted for mutual abutable engagement for clamping therebetween a strand of hair, and releasable means for holding said edges in operative engagement with said strand of hair.

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