

March 10, 1942.

E. E. CUSTIS

2,276,165

HAIR CURLER

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Fig. 1

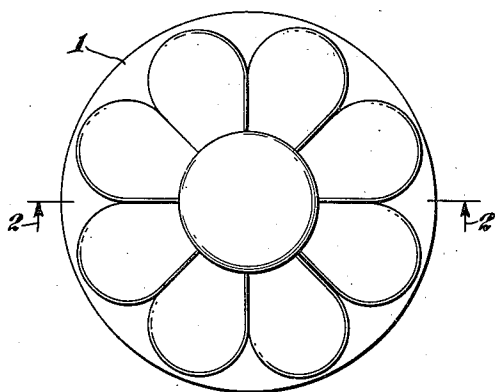


Fig. 2

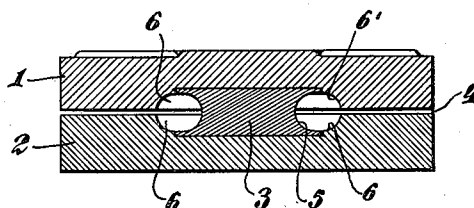


Fig. 3

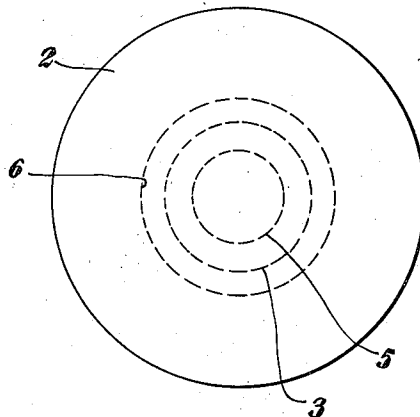


Fig. 4

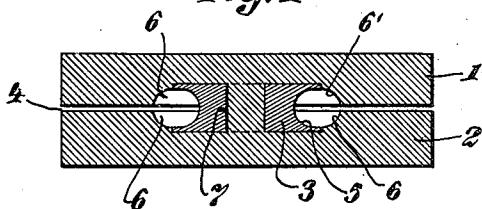
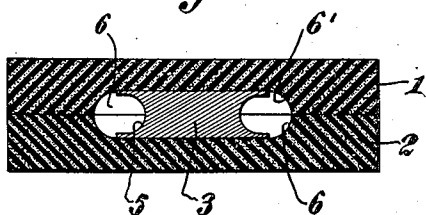


Fig. 5



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HAIR CURLER

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11 Claims. (Cl. 132-44)

The present invention is concerned with hair curlers and, more particularly, with such devices when supplied with soft pads.

The main object of the invention is to provide a hair curler in which no metal at all is used. Another object is to provide a hair curler which may be used under any and all circumstances, without embarrassment to the wearer and which, in fact, is actually decorative. Still another object is to provide a hair curler which may be worn with comfort even when the head rests upon it, as when one is lying down or asleep. Other objects will become apparent from the specification which follows and from the accompanying drawing, in which—

Figure 1 is a top plan view of the preferred embodiment of the invention.

Figure 2 is a cross section along the line 2—2 of Figure 1.

Figure 3 is a bottom plan view of the same device.

Figures 4 and 5 are cross sections similar to the one shown in Figure 2, but for modifications of the invention.

Referring to the figures in detail, 1 is a molded disc of soft, resilient material, and 2 another, similar disc of the same material, parallel to the disc 1. As shown, disc 1 carries an ornamentation on its top surface, while disc 2 shows none, but disc 2, also, may carry a surface ornamentation, on its bottom face, although not so shown here. The two discs in Figures 1-3 are slightly spaced from one another outside the hub 3, this hub 3 being intermediate the two discs and partly embedded therein. In Figure 5, the discs, although still separated, are in contact with one another outside the hub 3. The hub 3 has a circumferential groove 5, and the discs 1 and 2 have grooves 6' and 6'' respectively, adjacent the hub 3, forming, together with the groove 5 of the hub 3, a ring of open space 6 around the hub.

The material of the discs is, preferably, the soft, resilient material known under the name of "foam rubber," which is obtained from aerated latex (latex froth), allowed to gel in a mold, and is then subjected to a hot bath. Another suitable material is sponge rubber, shown in the modification, Figure 5. The material of the hub 3 is, preferably, solid rubber.

The modification illustrated in Figure 4 consists in making the hub 3 with a core 7 of the same material as the discs 1 and 2. When these discs are of foam rubber, the latex poured into the mold in which the discs 1 and 2 are formed fills the hollow of the hub and, after the latex has

jelled, the core of the hub is formed, like the discs, of foam rubber in a unitary mass with the discs. To more securely connect the hub with the discs, both in the case of a solid hub and of the hub with a soft core, I may use an adhesive between them, such as an appropriate cement.

In operation, because of the yielding character of the soft discs 1 and 2, they are gently pried apart, whether they are or are not in contact with one another, a lock of hair, after being dampened, is introduced between the discs and is wound around the groove 5 of the hub 3. After the winding operation is completed, the discs 1 and 2, owing to their resiliency, return to their original positions, and the lock of hair is held within the ring of open space 6 around the hub 3.

The faces of the discs may be given any decorative shape, such as flowers, for example, by an appropriate construction of the mold in which the discs are formed, and any desired color by coloring the latex used, so that the curlers will have the appearance of ornaments on the head. Various forms and colors may be used for several curlers in use, thereby creating distinctive ornamentations.

The softness of these curlers permits one to lie upon them with ease and comfort, so that they may be worn all night while one is asleep. In the morning, they may be leisurely removed, the curling process having been completed, but should the wearer be called into the presence of strangers before she had time to remove the curlers, she will suffer no embarrassment, owing to the decorative character of these curlers. Another advantage of these curlers is that the dampened hair does not come in contact with the head, thus avoiding the danger of catching cold.

I claim:

1. A hair curler comprising a couple of parallel discs of soft, resilient material and a hub of firm material intermediate said discs made integral therewith, said discs being disconnected from one another outside said hub to allow their separation for the introduction of a lock of hair between them, but close enough to one another to block the escape of said lock of hair.

2. A hair curler comprising a couple of parallel discs of soft, resilient material and a hub of firm material intermediate said discs made integral therewith, said discs being disconnected from, but in contact with, one another outside said hub.

3. A hair curler comprising a couple of parallel discs of soft, resilient material, a hub of firm material intermediate said discs made integral

therewith, and a circumferential groove on said hub, said discs being disconnected outside said hub to allow their separation for the introduction of a lock of hair between them and winding of said lock of hair around said groove, but close enough to one another to block the escape of said lock of hair.

4. A hair curler comprising a couple of parallel discs of soft, resilient material, a hub of firm material intermediate said discs and partly embedded therein, a circumferential groove on said hub, and grooves on said discs adjacent said hub forming, together with the groove of said hub, a ring of open space around said hub, said discs being disconnected outside said hub to allow a lock of hair to be introduced between them, to be wound around said hub and to be held within said ring of open space.

5. A hair curler comprising a pair of parallel discs of soft, resilient material and a hub of firm material intermediate said discs having a core of the same material as said discs and integral therewith, a circumferential groove on said hub, and grooves on said discs adjacent said hub forming, together with the groove of said hub, a ring of open space around said hub, said discs being disconnected outside said hub to allow a lock of hair to be introduced between them, to be wound around said hub and to be held within said ring of open space.

6. A hair curler comprising a pair of parallel, molded discs of a soft, resilient material and a hub of a firm material intermediate said discs made integral therewith, a circumferential groove on said hub, and grooves on said discs adjacent said hub forming, together with the groove of said hub, a ring of open space around said hub, said discs being disconnected outside said hub to allow a lock of hair to be introduced between them, to be wound around said hub, and to be held within said ring of open space, and the face of one or both of said discs having an ornamental surface.

7. A hair curler comprising a pair of parallel, molded discs of foam rubber and a hub of solid

rubber intermediate said discs made integral therewith, a circumferential groove on said hub, and grooves on said discs adjacent said hub forming, together with the groove of said hub, a ring of open space around said hub, said discs being disconnected to allow a lock of hair to be introduced between them, to be wound around the groove of said hub and to be held within said ring of open space, and the face of one or both of said discs having an ornamental surface.

8. A hair curler comprising a pair of parallel discs of soft, resilient material, a hub of firm material intermediate said discs, a circumferential groove on said hub, and grooves on said discs adjacent said hub forming, together with the groove of said hub, a ring of open space around said hub, said discs being disconnected outside said hub, but in contact with one another.

9. A hair curler comprising a pair of parallel discs of soft, resilient material, a hub of firm material intermediate said discs, a circumferential groove on said hub, and grooves on said discs adjacent said hub, forming, together with the groove of said hub, a ring of open space around said hub, said discs being spaced from one another outside said hub.

10. A hair curler comprising a couple of parallel discs of soft, resilient material and a hub of firm material intermediate said discs made integral therewith, said discs being spaced from one another outside said hub to facilitate their separation for the introduction of a lock of hair between them, but close enough to one another to block the escape of said lock of hair.

11. A hair curler comprising a couple of parallel discs of soft, resilient material and a hub connecting their central portions, said discs being disconnected outside said hub to allow the introduction of a lock of hair between them for winding it around said hub, but close enough to one another to block the escape of said lock of hair.

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