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**2,659,379**

PIN CURL CLIP

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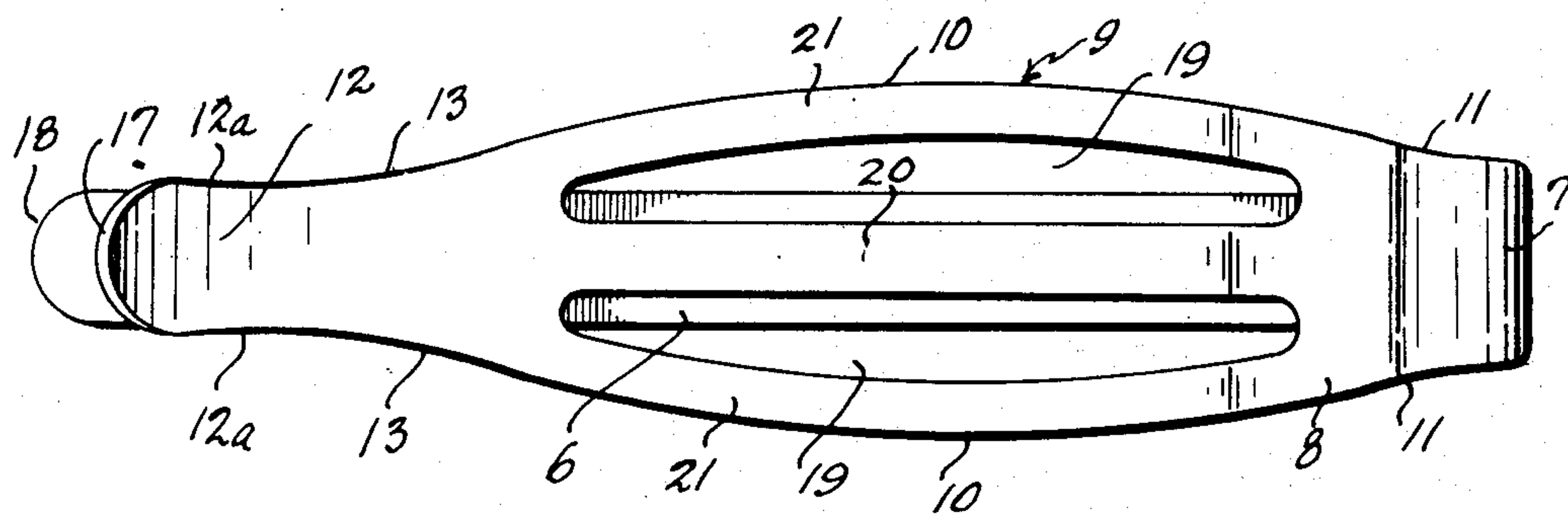


Fig. 1.

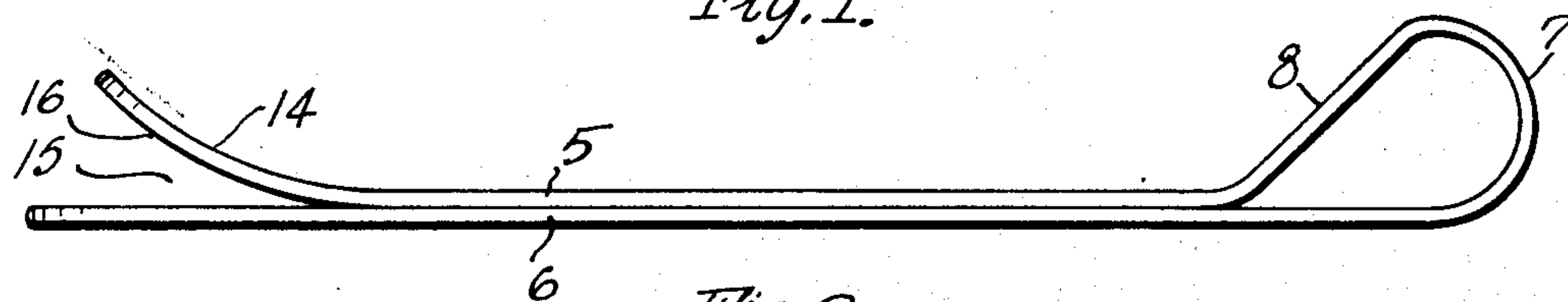


Fig. 2.

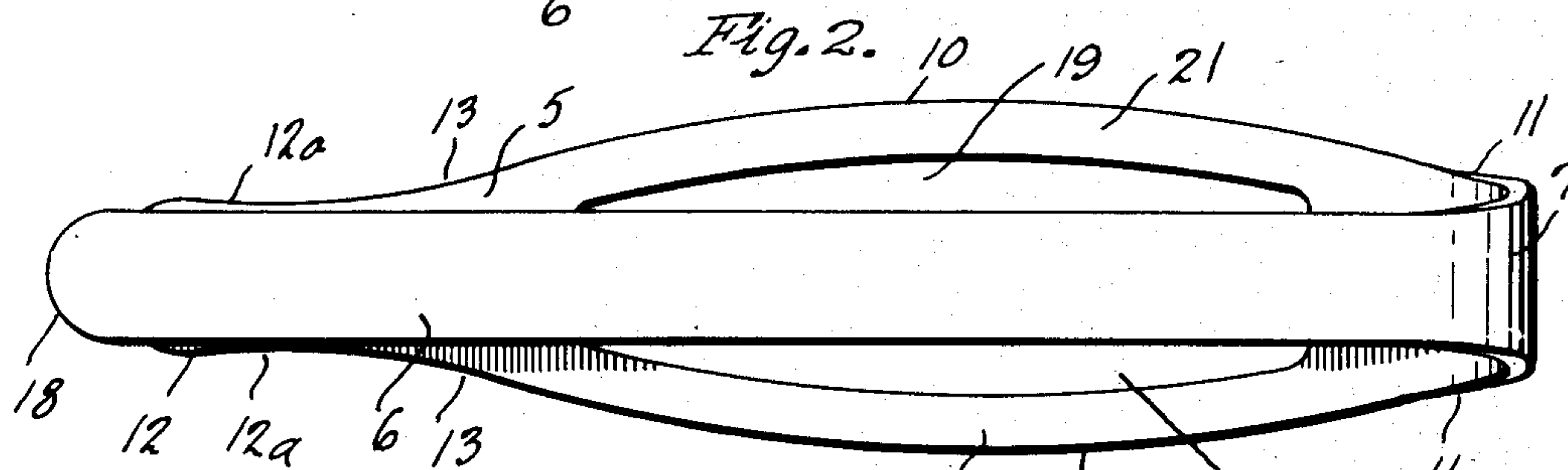


Fig. 3.

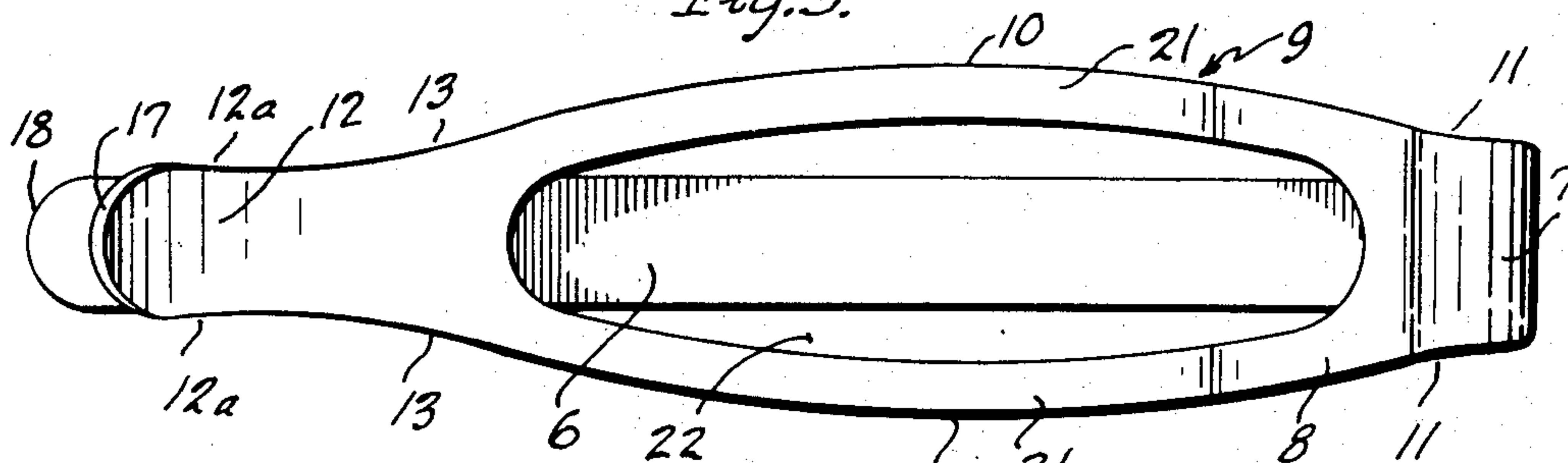


Fig. 4.

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## UNITED STATES PATENT OFFICE

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## PIN CURL CLIP

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2 Claims. (Cl. 132—46)

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This invention relates to a pin curl clip and has for an object to provide such a clip of an improved and simplified construction which may be easily applied to a pin curl and which will hold such a curl in the most effective position for proper drying of the curl and maintaining its shape.

Another object is to provide such a pin curl clip which may be readily and easily applied to the curl without injuring the hair or forcing the hairs of the curl out of position in the applying operation, and thus the curl is held during drying in proper shape and without being distorted.

A further object is to provide a pin curl clip which while properly holding the curl permits circulation of air for proper and rapid drying of the hair.

With the foregoing and other objects in view, I have devised the construction illustrated in the accompanying drawing forming a part of this specification. It is, however, to be understood the invention is not limited to the specific details of construction and arrangement shown, but may embody various changes and modifications within the scope of the invention.

In this drawing:

Fig. 1 is a top plan view on an enlarged scale of the preferred form of the pin curl clip;

Fig. 2 is a side view thereof;

Fig. 3 is a bottom view, and

Fig. 4 is a top view showing a somewhat modified construction.

Referring first to Figs. 1, 2 and 3, the improved clip comprises a single strip or piece of resilient spring material, such, for example, as metal or other suitable material, which is bent upon itself intermediate its ends, preferably at substantially its midlength, to provide front and rear portions or arms 5 and 6 respectively. The front arm 5 may also be called the outer arm and is provided with a widened body portion, while the rear arm 6, which may also be called the inner or base arm, is substantially flat and straight and preferably of substantially uniform width throughout. By bending a single piece of the material the front and rear arms are connected by a curved bend 7, and as the front arm 5 in the normal position is closely adjacent and on the front surface of the rear arm 6 it is connected with the bend 7 by an inclined substantially straight portion 8, preferably inclined to the rear arm 6 at an angle of about forty-five degrees.

The body portion of the front or outer arm is widened as indicated at 9 and has gradually and convexly curved outer longitudinal edges 10 gradually running into the edges of the bend 7

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as indicated at 11, and also gradually curving into a narrower front end portion 12 as indicated at 13, the sides of which portion 12 may be somewhat concaved as indicated at 12a. The front end portion 12 is curved forwardly and outwardly away from the rear arm 6 as indicated at 14, providing an open tapered entrance throat or opening 15 for entrance of the hair of the curl between the front and rear arms 5 and 6. With this curved shape the lower surface 16 gradually runs into the lower surface of the front arm 5 and the upper surface of the rear arm 6 so as to become tangent to these surfaces at the entrance point, and therefore will guide the hair of the curl most effectively, evenly and easily into position between the front and rear arms when applying the clip to the curl, and with the least displacement of the hairs of the curl, and thus with the least liability of deforming or spoiling the form of the curl. The free ends of both the front and rear arms 5 and 6 are rounded as indicated at 17 and 18 respectively, and all the edges are made smooth, even and free of burrs so that the clip will slide easily onto the curl without danger of the hair catching on any uneven surfaces to be torn or forced out of position.

The widened or body portion 9 is open, or that is, provided with one or more longitudinally extending elongated openings 19. In the form of Fig. 1 there are two of these openings leaving a longitudinal narrow bar 20 between them, and this structure provides curved narrow side bars 21 between the openings and the outer curved edges 10. In the form of Fig. 4 the clip is the same as that of the first form except that the central bar 20 is omitted, leaving only one elongated opening 22 between the narrow side bars 21. However, the form of Fig. 1 with the central bar is preferred because this bar keeps the hair of the curl from coming up in the middle and holds it more nearly to proper shape, although the form of Fig. 4 permits greater circulation of air for the drying operation.

In using the device and in applying this clip to a formed curl, as the curl is held the clip is slipped over this curl so that the rear arm 6 is at the under side of the curl next to the scalp and the outer or front arm 5 is against the outer side of the curl. The clip is simply slid onto the curl, the hair readily entering through the inclined throat or opening 15 to a position between the arms 5 and 6, these arms of course separating sufficiently under the resilient and flexible action of the material of which the clip is formed, and after the curl is in position between the arms it is held in



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proper shape by clamping action of these arms, and it is retained in proper shape during the drying of the hair. Due to the gradual curve of the side edges 13 and 10 and the rounded ends 17 and 18, the clip slides easily and gradually onto the curl without forcing the curl out of shape or injuring the hair. The rounded shapes and curves of the clip keep the curl, which is also rounded, flat to the head. As previously indicated, the central bar keeps the hair from coming up in the middle and therefore maintains the proper shape of the curl. The front portion 12 and arm 6 are relatively broad so that it is easy to catch most of the hair of the curl at the start when inserting the clip, and as previously indicated, the clip is so constructed, particularly because of the gradual curve 16 and the shape of the entrance throat or opening 15, that the hair slides easily into the clip. The narrow edge portions 21 of the widened body portion on the opposite sides of the open central portion help to pin or hold down the curl around the edges of the clip and retain it in proper shape during the drying operation. Because of the gradual curved shape and construction of the clip it is as readily removed from the curl after it is properly dried, without distorting or forcing it out of shape.

Although the dimensions of the clip may be varied as found necessary or desirable, substantially the following dimensions are preferred: that is, the total length of the strip before being bent is preferably approximately  $4\frac{1}{4}$ " and the bend 7 is substantially half circle and about  $\frac{1}{4}$ " high, with the inclined portion 8 at about 45 degrees to the rear arm 6. The bars 21 are preferably about  $\frac{1}{8}$ " wide and the bar 20 about  $\frac{3}{8}$ ", with the width of the wider portion 9 about  $\frac{1}{2}$ ", and the total length of the clip when formed about  $1\frac{7}{8}$ ". The end portion 12 and rear arm 6 are preferably about  $\frac{3}{8}$ " wide, and although these dimensions as indicated may be varied somewhat as found desirable, these are approximately the preferred dimensions and have been found to be very satisfactory in the use of the device.

Having thus set forth the nature of my invention, I claim:

1. A pin curl clip comprising a single strip of

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resilient spring material bent upon itself intermediate its ends providing connected inner and outer arms, the inner arm being substantially straight and of substantially uniform width, the outer arm being closely adjacent the inner arm and including a widened intermediate portion having convexly curved outer side edges running gradually into narrower portions at its opposite ends, said widened portion comprising laterally spaced narrow side bars at its opposite edges and a narrow central longitudinal bar between and spaced from the side bars forming longitudinal elongated ventilating openings therewith, and the reduced free end portion of the outer arm being inclined outwardly away from the inner arm forming a tapered entrance throat therewith for insertion of a curl between the arms.

2. A pin curl clip comprising a single strip of resilient spring material bent upon itself intermediate its ends providing connected inner and outer arms, the inner arm being substantially straight and of substantially uniform width, the outer arm being closely adjacent the outer side of the inner arm and including a widened intermediate portion including outwardly and convexly curved laterally spaced narrow side bars and an intermediate longitudinal narrow bar between and spaced from the side bars forming elongated longitudinal ventilating openings therewith, and said outer arm including a reduced free end portion curved outwardly away from the inner arm forming a tapered entrance throat therewith for insertion of a curl between the arms.

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