

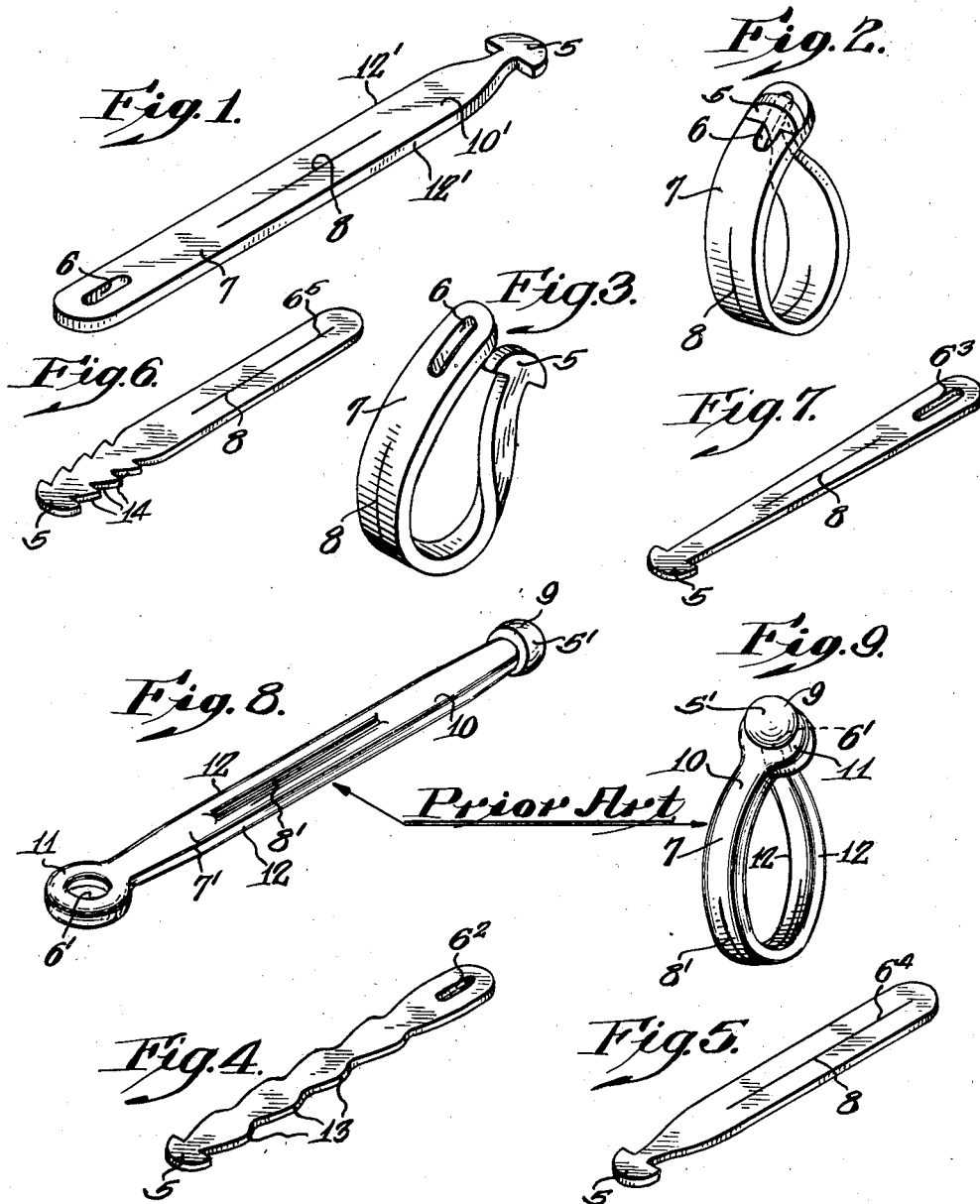
Feb. 6, 1934.

W. J. CALEY

1,945,932

HAIR CURLER OR WAVER

Filed March 16, 1933



Witnesses:

Oliver W. Hackel.
Walter Thum.

Inventor
Wendell J. Caley

by *W. Stoddard Johnson and Son*
Attorneys.

UNITED STATES PATENT OFFICE

1,945,932

HAIR CURLER OR WAVER

Wendell J. Caley, Manoa, Pa.

Application March 16, 1933. Serial No. 661,065

7 Claims. (Cl. 132-44)

My invention relates to a hair curler or waver for use in waving or curling hair, and has more particular reference to the type of waver or curler that comprises a short strip of rubber or the like having an eye at one end, a head at the other and with or without a slit along an intermediate portion of the strip length.

A purpose of the invention is to provide a novel form of waver or curler of the character indicated suited to easy inexpensive quantity production in the form of stampings from sheet rubber or the like.

A further purpose is to provide a waver or curler of the character indicated that will have a uniformity of thickness throughout its entire length.

A further purpose is to provide a waver or curler of the character indicated in which the head and eye ends of the strip are free from extension beyond the side and face planes of the strip body.

A further purpose is to make the buttoning of the head and eye ends together more easy by providing the head with flatness whereby the head may be inserted edgewise through the eye and then buttoned by turning back into its normal plane.

A further purpose is to make the eye of a waver or curler of the character indicated, alternatively as a slit.

A further purpose is to provide one or more lateral barbs or lateral waves inwardly of the head of a waver or curler of the character indicated, providing thereby an adaptation to effectively button at one or more points inwardly of the head.

Further purposes will appear in the specification and in the claims.

I have elected to show a few only of the different forms of my invention, selecting forms however that are practical and efficient in operation and which well illustrate the principles involved.

Figures 1, 2 and 3 are perspective views illustrating my curler or waver in different positions, Figure 1 showing it extended or open and Figure 2 showing it in position of use with the head and eye ends buttoned together, and showing it in an intermediate position, with the head turned edgewise to the eye for more easy insertion of the head through the eye.

Figures 4, 5, 6 and 7 are perspective views corresponding generally to Figure 1 but showing respectively different forms.

Figures 8 and 9 are views corresponding respectively to Figures 1 and 2 but showing a curler or waver of the prior art.

Describing in illustration and not in limitation and referring to the drawing:—

The wavers or curlers of my invention and those of the prior art are alike in so far that each includes an integral strip of rubber or other flexible material having a head 5 or 5' at one end, an eye 6 or 6' at the other and an intermediate body 7 or 7' preferably longitudinally slit for a portion of its length at 8 or 8'. I much prefer to use rubber, but other flexible material may be used, such as celluloid or fiber.

The structure of the prior art, Figures 8 and 9 has been without freedom from head extensions at 9 beyond the face planes 10 of the strip and also has been without freedom from eye extensions at 11 beyond the side planes 12 of the strip, and as a result the wavers or curlers of the prior art have been disadvantageously unadapted to quantity manufacture by stamping from sheet material.

My invention is intended to correct these disadvantageous features, thereby to permit a greatly cheapened quantity manufacture of the wavers or curlers. I provide heads and eyes at 5 and 6 that are respectively free from extension beyond the face and side planes 10' and 12' of the strip body, and thereby secure a form of waver or curler that is equally well suited to the intended use and much less expensive to make in quantity.

The flatness of the head makes buttoning easier, the head being usually presented edgewise to the eye as indicated in Figure 3 and automatically buttoning across the eye to the position of Figure 2 when released.

I may make the eye with or without any removal of material of the original strip—that is, as either a slot perforation (6, 6² or 6³ of Figures 1, 4 and 7 respectively) or as a slit perforation 6⁴ and 6⁵, Figures 5 and 6 respectively.

I find it sometimes desirable to make the curler or waver adapted to button not only at the head but alternatively at one or more points inwardly of the head and in this event may provide what may be considered as effectively a succession of heads from the head end, as lateral waves 13 of Figure 4 or lateral barbs 14 of Figure 6.

I may also make the width of the body portion between the head and eye substantially uniform for the major portion of the body length, as indicated in Figures 1, 5 and 6, or with a long taper as indicated in Figure 7.

It will be understood that any one of the illustrated forms of my invention may, dependent

upon variant circumstance and preference of the user be at different times more desirable than any of the others.

While I prefer to produce my curler or waver from stampings, it will be understood that they may be manufactured in molded form.

In view of my invention and disclosure variations and modifications to meet individual whim or particular need will doubtless become evident to others skilled in the art, to obtain all or part of the benefits of my invention without copying the structure shown, and I, therefore, claim all such in so far as they fall within the reasonable spirit and scope of my invention.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a waver or curler, a flexible flat strip of substantially uniform thickness, having an elongated eye at one end and a lateral toothed formation from the other end.

2. In a waver or curler, a flexible flat strip of substantially uniform thickness, having an elongated eye at one end and a flat head at the other, the said eye comprising a slit through the thickness of the strip.

3. A waver or curler comprising a flexible flat strip having an eye at one end, a head at the other end and a body intermediate the head and eye, the strip having uniformity of thickness throughout its entire length and substantial uniformity of width throughout the length of the strip body, the strip having near one end lateral recesses making the head beyond the recesses of

strip width and the eye having elongation in a direction longitudinal of the strip.

4. A hair curler comprising a flat strip of uniform thickness having cut edges, a longitudinally extending locking opening in one end of the strip and a transversely extending flat locking head adapted to pass through the locking opening in quarter turned position of the head and to lock against the strip when turned to its normal position.

5. A flat hair curler having cut edges, having a longitudinal opening in one end of the curler of width sufficient to pass the thickness of the curler and notched near the other end to permit the other end to be turned and passed through the opening and then turned back again to engage with the curler in the rear of the opening.

6. A flat hair curler having cut edges, having a longitudinal opening in one end of the curler of width sufficient to pass the thickness of the curler and having a plurality of notches along the sides adjoining the other end of the curler whereby the latter end of the curler may be turned and passed through opening and locked with the walls of any of the notches engaging the curler with the rear of the opening.

7. A hair curler comprising a flat strip of uniform thickness having cut edges, a longitudinally extending slit in the strip and a transversely extending flat locking head adapted to pass through the slit in quarter turned position of the head and to lock against the strip when turned to its normal position.

WENDELL J. CALEY.