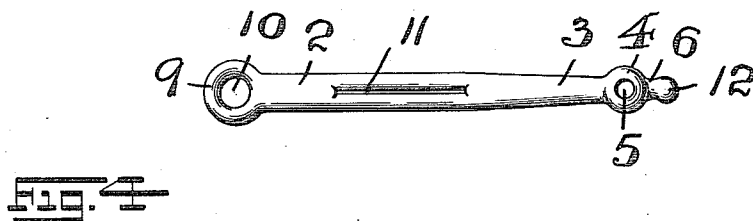
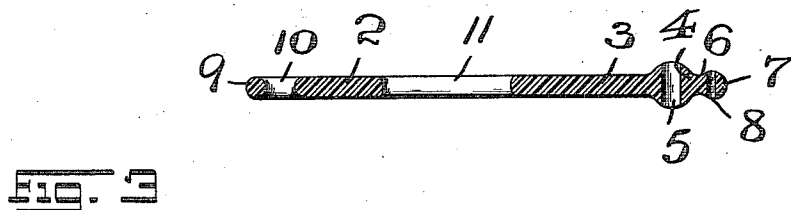
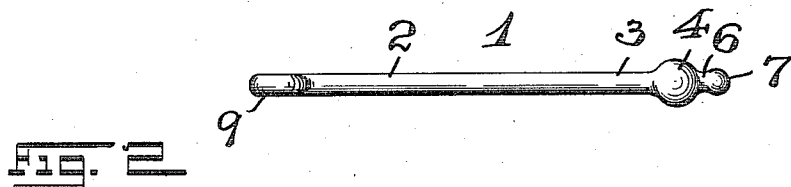
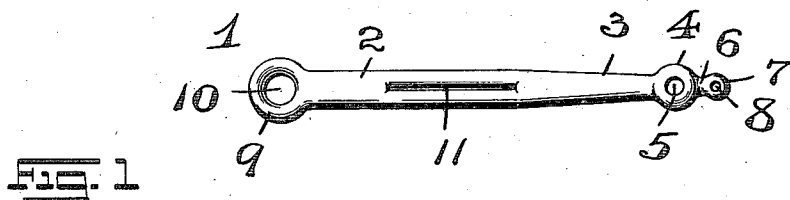


W. F. FREEMAN.
HAIR CURLER AND WAVER.
APPLICATION FILED FEB. 8, 1910.

957,462.

Patented May 10, 1910.



WITNESSES:

Frederick W. Fraentzel
Anna H. Alt

INVENTOR:

Walter F. Freeman,
BY
Fraentzel and Richards
ATTORNEYS

UNITED STATES PATENT OFFICE.

WALTER F. FREEMAN, OF TOOTING, LONDON, ENGLAND, ASSIGNOR TO MERKHAM TRADING COMPANY, A CORPORATION OF NEW YORK.

HAIR CURLER AND WAVER.

957,462.

Specification of Letters Patent. Patented May 10, 1910.

Application filed February 8, 1910. Serial No. 542,698.

To all whom it may concern:

Be it known that I, WALTER FELIX FREEMAN, a subject of the King of England, residing at 18 Undine street, Tooting, in the county of London, S. W., England, have invented certain new and useful Improvements in Hair Curlers and Wavers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

The present invention relates to improvements in hair curlers and wavers; and, the said invention has reference, more particularly, to an improvement in soft resilient hair curlers and wavers of the kind which is formed with a body-portion provided at one end with a head or bulb, and at the other end with an eyelet-portion. In this class of hair-curlers and wavers, as heretofore constructed, considerable difficulty has been experienced when introducing the heads or bulbs of the said hair curlers and wavers into the said eyelet-portion of the same, because the said head or bulb being approximately stiff and but slightly yielding would resist its passage through said eyelet-portion; and, furthermore, said heads or bulbs being small were difficult to manipulate in the operation of passing the same through said eyelet-portion.

The present invention has for its principal object, therefore, to provide a novel construction of hair curler and waver of the class herein set forth in which the above-mentioned objections are overcome.

My invention consists in the novel hair curler and waver hereinafter fully set forth; and the invention consists, furthermore, in the several novel arrangements and combinations of the various parts, as well as in the details of the construction thereof, all of which will be hereinafter fully described in the following specification and then finally embodied in the clauses of the claim which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:—

Figure 1 is a face view of the novel construction of hair-curler and waver embody-

ing the principles of my present invention. Fig. 2 is an edge view of the same. Fig. 3 is a central vertical longitudinal section of the same. Fig. 4 is a face view of a slightly modified construction of hair-curler and waver embodying the principles of my present invention.

Similar characters of reference are employed in all of the herein-above described views, to indicate corresponding parts.

Referring now to Figs. 1, 2 and 3 of the accompanying drawings, there is illustrated therein a complete hair-curler and waver 1 which embodies the principles of my present invention. This said hair-curler and waver 1 comprises a body-portion 2 preferably made of a soft resilient material, such, for example, as india rubber, or the like. The said body-portion 2 is thus formed into a flexible band of any desirable cross-sectional configuration; the said body-portion being preferably provided, however, with a tapering portion 3 at one of its ends. Integrally formed upon the end of said tapering portion is a head or bulb 4, preferably of spherical conformation. The said head or bulb 4 is further provided with a transverse opening or perforation 5, which renders the same more easily compressible for the purposes to be subsequently described. Extending outwardly from said head or bulb 4 is a reduced extension or portion 6 and formed upon the free end of said extension or portion is a small head or bulb 7, which may also be provided with a transverse opening or perforation 8. The said body-portion 2 is further provided at its opposite end with a ring-shaped portion 9, the opening or perforation 10 of which is smaller in diameter than the diameter of said head or bulb 4. Arranged in said body-portion 2, at a convenient point between its ends, is an elongated slot or opening 11 adapted to be spread apart to receive the end of a tress or lock of hair which is to be wound about said body-portion to impart a curl or wave thereto.

After the tress or lock of hair has been wound upon said body-portion 2, the head or bulb 7 and the extension or portion 6 are inserted in the said ring-shaped portion 9, the said head or bulb 7 being then grasped by the fingers as it projects through said ring-shaped portion 9 and a pulling pressure is exerted which easily pulls through

the said ring-shaped portion 9, the said head or bulb 4 which is rendered more easily compressible by its transverse opening or perforation 5, so that the same may be more easily and quickly passed into its holding or "buttoned" relation with said ring-shaped portion 9. The transverse opening or perforation 8 in said small head or bulb 7 renders the same somewhat flexible or compressible, thereby aiding in assuring a firm grip thereupon by the fingers when "buttoning" the said hair-curler or waver. A further advantage found in the perforated heads or bulbs, as above described, lies in the fact that they are thus made more resilient or yieldable and therefore less objectionable when they come in contact with the head of the wearer, when reclining.

Referring now, more particularly to Fig. 4 of the said drawings, a slightly modified form of hair-curler or waver is provided of the same general construction as above described, except that in place of the head or bulb 7 provided with the transverse opening or perforation, a solid head or bulb 12 may be formed upon the end of said extension or portion 6.

I am aware that changes may be made in the several arrangements and combinations of the various parts, as well as in the details of the construction thereof, without departing from the scope of my present invention, as set forth in the foregoing specification, and as defined in the claims which are appended thereto. Hence, I do not limit my invention to the exact arrangements and combinations of the various parts as herein

shown and described, nor do I confine myself to the exact details of the construction thereof, except as defined by the scope of the appended claims.

I claim:—

1. As a new article of manufacture, a hair-curler and waver comprising a flexible body-portion, a ring-shaped member at one end of said body-portion, a head or bulb at the other end of said body-portion, said head or bulb being provided with a transverse opening or hole, and a pull-piece or extension extending outwardly from said head or bulb.

2. As a new article of manufacture, a hair-curler and waver comprising a body-portion of soft rubber provided with a slot or opening adapted to receive a tress or lock of hair, a ring-shaped member integrally connected with one end of said body-portion, a head or bulb integrally connected with the other end of said body-portion, said head or bulb being provided with a transverse opening or hole adapted to render said head or bulb more easily compressible, and a pull-piece or extension integrally connected with said head or bulb, said pull-piece or extension being provided with a small head or bulb of smaller diameter than the opening of said ring-shaped member.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 17 day of January, 1910.

W. F. FREEMAN.

Witnesses:

M. J. MEASURES,
E. PARNELL.