(No Model.)

C. A. G. PFANNE.

HAIR CURLING DEVICE.

No. 404,501. Patented June 4, 1889.

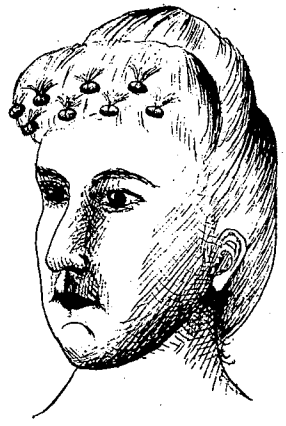


Fig. 1.

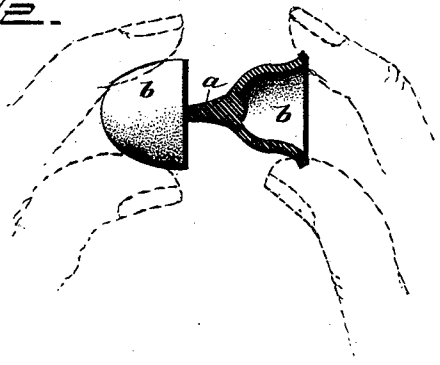


Fig. 2.

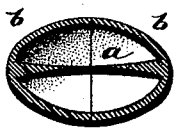


Fig. 3.

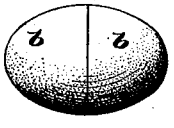


Fig. 4.

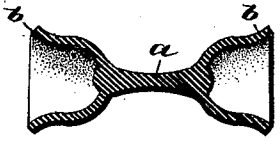


Fig. 5.

Witnesses,
Walter H. Pumphrey.
Chas. Petsche

Inventor,
Carl A. G. Pfanne
By Johnson & Johnson
his Attorneys.

N. PETERS. Photo-Lithographer. Washington, D. C.

UNITED STATES PATENT OFFICE.

CARL A. G. PFANNE, OF BROOKLYN, NEW YORK, ASSIGNOR TO PARKER, STEARNS & SUTTON, OF SAME PLACE.

HAIR-CURLING DEVICE.

SPECIFICATION forming part of Letters Patent No. 404,501, dated June 4, 1889.

Application filed January 21, 1889. Serial No. 296,971. (No model.)

To all whom it may concern:

Be it known that I, CARL A. G. PFANNE, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Hair-Curling Devices, of which the following is a specification.

I have produced a device for curling or piping hair for ladies' use, consisting of a stem around which the hair is wound, provided with an elastic reversible cup-shaped retainer at each end adapted to be turned inside out to permit the hair to be wound upon the stem, and to be turned in over the stem and over the hair thereon like a sleeve to maintain the hair in a coiled condition thereon, so as to set it in curls when unwound from the device.

The accompanying drawings illustrate my novel hair-curling device, and the novelty thereof will be embodied in specific claims concluding this specification.

Referring to the drawings, Figure 1 represents the device as it is used for curling woman's hair. Fig. 2 is a partial section showing one of the elastic cup-shaped retainers turned in to envelope the end of the stem and the other turned out at the end of the stem. Fig. 3 is an axial section of the device, with both elastic retainers turned in over the hair wound upon the stem. Fig. 4 is an elevation of the device as shown in Fig. 3, and Fig. 5 shows a longitudinal section of the device as it is produced from the mold as a complete article of rubber.

The hair-curling device is preferably produced of rubber in a mold, with a suitable stem *a*, having on each end a cup or bell shaped or tubular retainer or part *b*, of a diameter to form an inclosing space over the end of the stem and over the hair wound thereon, each retainer having a length sufficient to cover the stem and the hair wound thereon. These elastic cup-shaped retainers for this purpose are secured on each end of the stem, and are sufficiently thin to be turned inside out to uncover the stem to allow the hair to be wound thereon, and to be reversed or turned over the stem to inclose it like a sleeve and inclose and retain the hair in its wound condition upon the stem, so as to set it as stated, and to be again easily uncovered to unwind the hair from the stem.

It is obvious the stem may be made of wood or paper, and the elastic cup or bell shaped retainers pinned or otherwise suitably fastened to the ends of the stem; but I prefer to produce it of rubber as a complete article, and when so produced the retainers stand out from the ends of the stem in flaring form, so that when turned in over the ends of the stem they will act like retaining-bands all round over the hair wound upon the stem. When so molded, it is vulcanized to render the retainers elastic and easily turned inside out on the ends of the stem.

I claim—

1. A hair-curler composed of a stem upon which the hair is wound and an elastic retaining-cup on the end of the stem adapted to be turned inside out to uncover or to cover it, for the purpose stated.

2. A hair-curling device consisting of a stem upon which the hair is wound, having at each end an elastic retaining cup part, the length of both retaining parts being equal to the length of the stem, and adapted to be turned inside out upon the stem, for the purpose stated.

3. As a new article of manufacture, the herein-described rubber hair-curling device, consisting of a stem having on each end a cup-shaped retaining part adapted to be turned inside out, substantially as described, for the purpose specified.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

CARL A. G. PFANNE.

Witnesses:
A. E. H. JOHNSON,
WM. H. DE LACY.