March 27, 1962 A. A. HARMON 3,026,883

PIN CURLER SPOOL

Filed July 15, 1959

Fig. 1

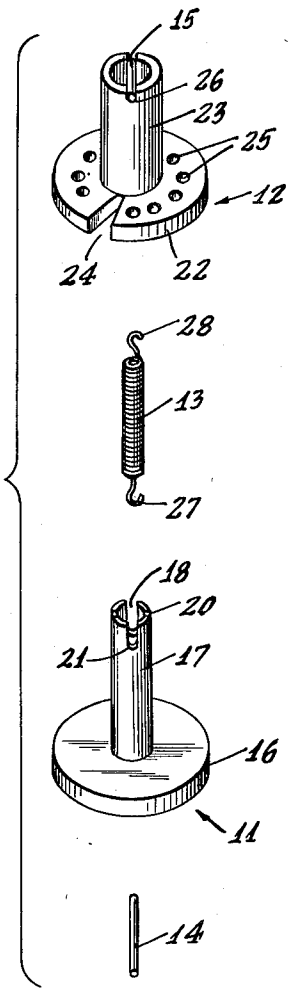


Fig. 2

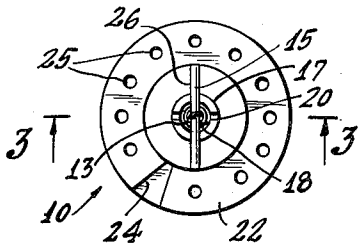


Fig. 3

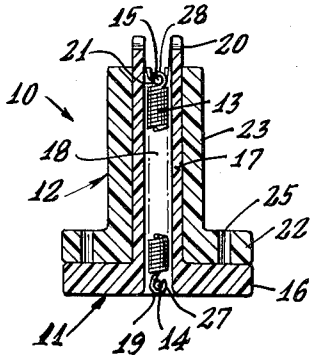
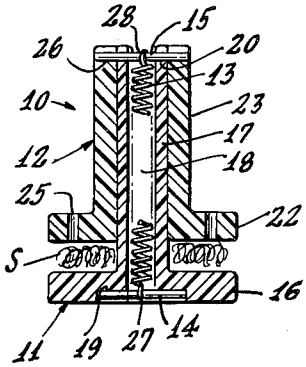


Fig. 4



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PIN CURLER SPOOL

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This invention relates to hairdressing pin curls, and is directed particularly to an improved hair curling spool for forming and holding pin curls until dry.

The principal object of this invention is to provide an inexpensive and easy to use hair curling spool which will facilitate the self-setting of women's hair in pin curls.

A more particular object of the invention is to provide a hair curling spool comprising a circular disk-like body member having an axial upstanding post, a sleeve member rotatably mounted on the post, said sleeve member having an annular base seatable against the upper surface of the base portion of the body member, and means for resiliently holding the sleeve member, selectively, in a first axial position with respect to the inside of the body member spaced therefrom to allow curling of hair therebetween, and a second axial position with respect to the body member where said sleeve member is urged into seating relation with respect thereto, for holding the curl of hair until it has dried or set.

Another object is to provide a hair curling spool of the above nature which will be simple in construction, easy to manipulate and apply, light in weight, comfortable to wear, attractive in appearance, and durable in use.

Other objects, features and advantages of the invention will be apparent from the following description when read with reference to the accompanying drawings.

In the drawings, wherein like reference numerals denote corresponding parts through the several views:

FIG. 1 is an exploded view of hair curling spool embodying the invention.

FIG. 2 is a top view of the curling spool, shown assembled.

FIG. 3 is a vertical cross-sectional view taken along the line 3—3 of FIG. 2 in the direction of the arrows, and

FIG. 4 is a vertical cross-sectional view similar to FIG. 3 but showing the curling spool in open condition, ready for a hair curling operation.

Referring now in detail to the drawings, the reference numeral **10** designates generally an improved pin curling spool according to this invention, the same being comprised of a body member **11**, a sleeve member **12**, a coil spring **13**, and a pair of spring-holding pins **14** and **15**.

The body member **11**, which is preferably integrally molded of a strong, light-weight synthetic plastic material, is formed with a disk-like circular base portion **16**, and an upstanding post portion **17**, having an axial bore **18** extending end-to-end through the body member **11**. Formed within the outside of the base portion **16** of the body member **11** and extending across the base end of the axial bore **18** is an elongated recess **19** adapted to receive therein the pin **14** for the purpose hereinbelow appearing. The upper end of the post portion **17** of the body member **11** is formed with a shallow diametrical recess **20** and a relatively deep diametrical recess **21** ninety degrees displaced from said shallow recess, for the purposes hereinafter more fully described.

The sleeve member **12**, also preferably molded of a synthetic plastic material, comprises a disk-like circular base portion **22** of substantially equal diameter to that of the base portion **16** of the body member **11**, and integrally secured with one end of a coaxial cylindrical sleeve portion **23** having an internal diameter slightly greater than the external diameter of the post portion **17** of the body member **11**. The base portion **22** of the sleeve member **12** is formed with a V-shaped, radially-extending slot **24**, said base portion **22** has a plurality of through openings **25** spaced about a circle coaxial with said sleeve member. The upper end of the portion **23** of the sleeve member **12** is formed with a diametrical groove **26** adapted to seat the spring holding pin **15**.

As illustrated in FIGS. 3 and 4, the sleeve member **12** is rotatably mounted with respect to the body member **11** and resiliently held thereon by the spring **13** fitted within the central opening of said body member. One end **27** of the spring **13** is hooked over the pin **14** in the recess **19** of said body member and the other end **28** of said spring is hooked over the pin **15** seated in the groove **26** of said sleeve member.

As illustrated in FIG. 3, wherein the sleeve member **12** is shown turned with respect to the body member **11** so that the spring holding pin **15** is in alignment with the deep diametrical recess **21** in the post portion **17** of said body member, the underside of the base portion **22** of said sleeve member will be resiliently held in seating engagement upon the base portion **16** of said body member.

The sleeve member **12** can be held in separated relation with respect to the body member **11**, as illustrated in FIG. 4, by pulling it upwardly and turning it with respect to said body member so that the spring holding pin **15** will seat in the shallow diametrical recess **20** in the post portion **17** of said body member.

Operation

In use, the curling spool will first be adjusted to open position, as illustrated in FIG. 4, and a strand of hair S will be passed through the V-shaped slot **24** and wound around the lower end of the post portion **17**. The sleeve member **12** will then be lifted slightly to unseat the pin **14** from the shallow recess **20** and turned to allow passage into the deep recess **21**, whereupon the curled hair S will be resiliently clamped in place between the underside of the base portion **22** of the sleeve member **12** and the inside of the base portion **16** of the body member **11**. After a curl has set or dried, which may be facilitated by the ventilation openings **25** in the base portion **22** of the sleeve member **12**, the curling spool will be removed simply by again withdrawing the sleeve member **12** into the open position as shown in FIG. 2.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not limited to the specific disclosure, but may be modified and embodied in various other equivalent forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claim.

Having thus fully described the invention, what is claimed as new and for which it is desired to secure Letters Patent is:

A hair curling spool comprising in combination, a hollow body member having an upper cylindrical hollow post provided with an enlarged circular base flange, a sleeve member rotatably journalled on and slidable in a longitudinal direction upon said post, said sleeve member having a base flange which is provided with a V-shaped open slot to receive a strand of hair therein, a vertically extending coiled spring for resiliently urging said sleeve member downwardly to force its base flange against a curled strand of hair located on the base flange of said post, a cross pin secured to the top of said spring, the top of said hollow post having two pairs of angularly spaced radial slots one pair being of a different depth from the other pair for selectively receiving said cross pin therein.

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