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2,414,124

BOB PIN

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Fig. 1.

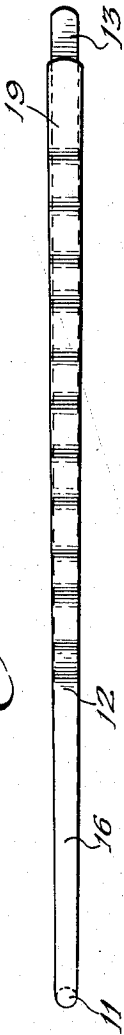


Fig. 2.

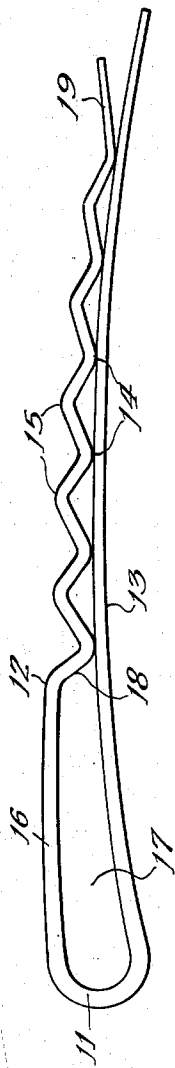
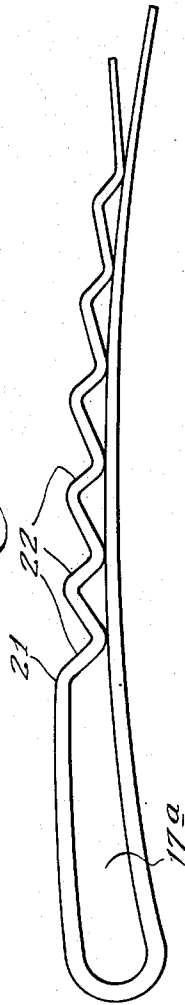


Fig. 3.



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UNITED STATES PATENT OFFICE

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BOB PIN

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5 Claims. (Cl. 132-50)

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This invention relates to bob pins and has for an object the provision of a hair fastener of this type which may be inexpensively formed of resilient material, such as wire, which may readily be inserted for holding hair in place, and which is not readily displaced from its hair holding position.

This invention further contemplates the provision of a bob pin having a pair of opposing legs depending from a U-shaped bend portion and converging toward their free ends along non-concentric arcs, the outer of said legs being formed throughout the major portion of its length with a plurality of inwardly converging crimps having their junctures in arcuate alignment with the uncrimped portion of said leg and having their bases normally disposed against the opposing leg. A relatively large hair receiving pocket of a type similar to the form disclosed in a co-pending application filed October 21, 1944, Serial No. 559,677, now U. S. Patent No. 2,396,367, March 12, 1946, is formed at the inner end of the bob pin and is defined by the opposing legs, the bend portion, and the inner leg of the adjacent crimp which is preferably disposed at an angle of from 30° to 90° from the longitudinal axis of the pin.

This invention further contemplates the provision of a bob pin which may be inexpensively formed from round wire to provide a bend portion of arcuate cross section and flattened opposing leg portions of gradually increasing width and gradually decreasing thickness from the bend portion toward their free ends. In this form of construction the bending strength of the legs at various points throughout their length is proportional to the leverage between the various points and their connected ends, and thus provides a more uniform spread of the legs throughout their length without exceeding the elastic limits of the various sections. This construction also facilitates opening of the pin for insertion in the hair and further serves to adequately resist movement of hair from the hair receiving pocket provided adjacent the bend portion of the pin.

This invention embodies other novel features, details of construction and arrangement of parts which are hereinafter set forth in the specification and claims, and illustrated in the accompanying drawing wherein:

Fig. 1 is a plan view showing a bob pin embodying features of this invention.

Fig. 2 is a side elevational view of same.

Fig. 3 is a side elevational view showing a modified form of this invention.

Referring now to the drawing for a better un-

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derstanding of this invention, the improved bob pin is shown as comprising a U-shaped bend portion 11 and a pair of legs 12 and 13 converging along non-concentric arcs from the bend portion toward their free ends. The bob pin is preferably formed of round resilient wire which is flattened to provide leg portions having gradually increasing widths and gradually decreasing thicknesses from the bend portion toward the free ends thereof. The outer leg 12 is formed throughout the greater portion of its length with a plurality of inwardly converging crimps having their bases 14 normally disposed in engagement with the opposing leg 13 and having their apices 15 disposed in arcuate alignment with the uncrimped portion 16 of the leg 12.

A relatively large hair receiving pocket 17 is formed at the inner end of the pin and is defined by the bend portion 11, leg 13, the uncrimped portion 16 of the leg 12, and an abutment shoulder 18 forming one leg of the innermost crimp. The abutment shoulder 18 is preferably disposed at an angle from 45° to 90° from the inner leg 13. The free end of the leg 12 is bent away from the inner leg 13 at 19 to facilitate insertion of the pin into the hair.

After the bob pin has been thus formed it is tempered to increase the clamping force exerted by the legs. After tempering, it has been discovered that this form of construction sets up a very appreciable initial clamping force by the legs 12 and 13 in their closed position. This initial clamping force is of particular importance as it aids materially in preventing displacement of the bob pin from the hair.

Fig. 3 illustrates a modified form of this invention in which the outer leg 21 of the bob pin is formed with crimps having their inner legs 22 disposed in substantially parallel alignment with each other to provide a series of relatively abrupt abutment shoulders adapted to act together to further resist displacement of the bob pin from the hair. This form of the invention is otherwise similar to the form heretofore described in connection with Figs. 1 and 2 in the drawing.

In the form of bob pin construction shown and described, the bending strength of the legs at various points throughout their length is proportional to the leverage between the various points and their connected ends, and thus permits a more uniform spreading of the legs throughout their length without exceeding the elastic limits of the various sections.

The provision of a relatively large hair receiving pocket 17 adjacent the inner end of the bob

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pin and the further provision of a relatively abrupt abutment shoulder 18 for said pocket serves to prevent displacement of the bob pin from the hair and is of sufficient width so as not to become so compactly filled with hair as to interfere with the normal hair clamping movement of the outer extremities of the legs 12 and 13.

While this invention has been shown in but two forms, it is obvious to those skilled in the art that it is not so limited but is susceptible of various changes and modifications without departing from the spirit and scope of the claimed invention.

I claim as my invention:

1. A bob pin formed of resilient material, comprising a pair of opposing legs united by a U-shaped bend and converging toward their free ends along non-concentric arcs, a portion of the outer of said legs being formed with a plurality of crimp portions projecting toward the inner leg and defining therewith hair receiving pockets of progressively decreasing area, the apices of said crimps being in arcuate alignment with the uncrimped portion of said outer leg.

2. A bob pin formed of resilient material, comprising a pair of opposing legs united by an integral U-shaped bend portion and converging toward their free ends along non-concentric arcs, the outer of said legs throughout a portion of its length being formed with a plurality of crimp portions having their bases normally engaging the inner leg and defining therewith a plurality of hair receiving pockets of progressively smaller area from the bend portion toward the free ends of the legs, the apices of said crimps being in arcuate alignment with the uncrimped portion of said outer leg.

3. A bob pin formed of resilient material, comprising a pair of opposing legs united by an integral U-shaped bend portion and converging toward their free ends along non-concentric arcs, the outer of said legs being formed through a portion of its length with a plurality of V-shaped crimps having their bases normally engaging the inner leg and defining therewith a plurality of hair receiving pockets of progressively smaller area from the bend portion toward the free ends of the legs, the junctures of said V-shaped crimps

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being in arcuate alignment with the uncrimped portion of the outer leg, the innermost crimp being formed to provide an abutment shoulder for a relatively large hair receiving pocket defined by the U-shaped bend portion and the opposing legs.

4. A bob pin formed of resilient material, comprising a pair of opposing legs united by an integral U-shaped bend portion and converging toward their free ends along non-concentric arcs, the outer of said legs being formed through a portion of its length with a plurality of V-shaped crimps having substantially equally spaced bases normally engaging the inner leg and defining therewith a plurality of hair receiving pockets of progressively smaller area from the bend portion toward the free ends of the legs, the junctures of said V-shaped crimps being in arcuate alignment with the uncrimped portion of the outer leg, the innermost crimp being formed to provide an abutment shoulder for a relatively large hair receiving pocket defined by the U-shaped bend portion and the opposing legs, said abutment shoulder being disposed at an angle of from approximately 45° from 90° from the longitudinal axis of the bob pin.

5. A bob pin formed of resilient material, comprising a U-shaped bend portion, integral legs depending from said bend portion and converging toward their free ends along non-concentric arcs, said legs being of gradually decreasing thickness and gradually increasing width from the bend portion toward their free ends, the outer of said legs being formed throughout the major portion of its length with a plurality of equally spaced V-shaped crimps having their bases normally engaging the inner leg and defining therewith a plurality of hair receiving pockets of progressively smaller area from the bend portion toward the free ends of the legs, the junctures of said V-shaped crimps being in arcuate alignment with the uncrimped portion of the outer leg, the innermost crimp being formed to provide an abutment shoulder for a relatively large hair receiving pocket defined by the U-shaped bend portion and the opposing legs, said abutment shoulder being disposed at an angle of approximately 45° from the longitudinal axis of the bob pin.

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