Nov. 4, 1941. R. C. F. BRAINARD 2,261,825

CLIP HAIRPIN

Filed June 17, 1940

Fig. 2.

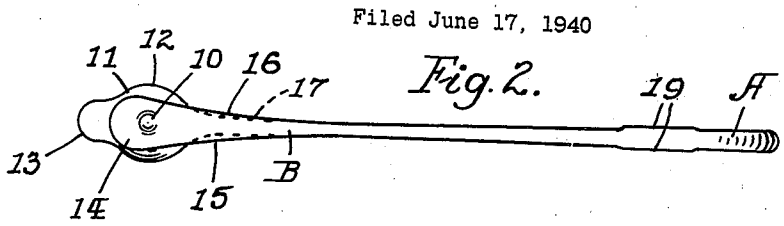


Fig. 1.

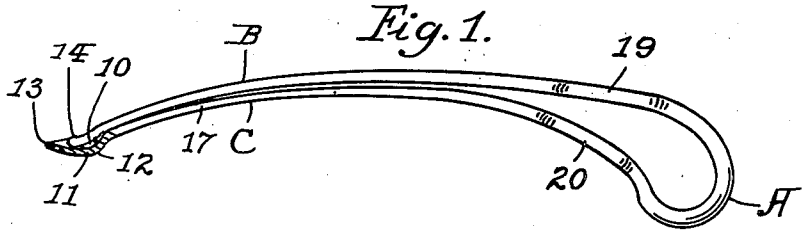


Fig. 3.

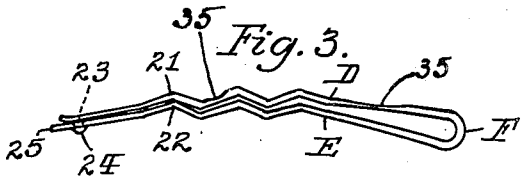


Fig. 4.

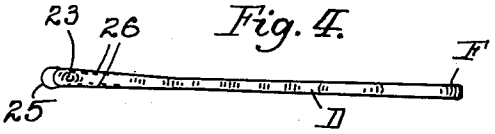


Fig. 7.

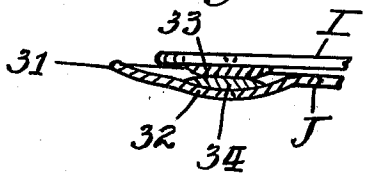


Fig. 5.

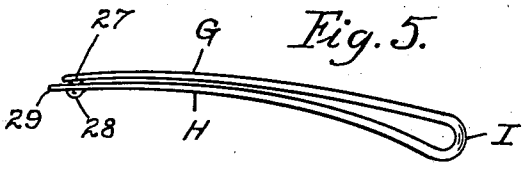
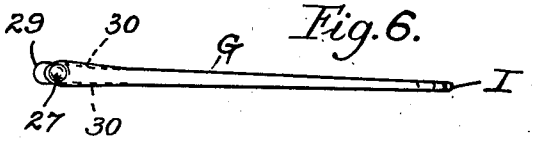


Fig. 6.



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CLIP HAIRPIN

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Application June 17, 1940, Serial No. 341,011

7 Claims. (Cl. 132—50)

My invention relates to an improved clip hair pin for use with short or bobbed hair, wherein due to its particular formation an unusual grip is secured upon the hair to effectively hold the waves or coils of hair in place while the hair pin conforms closely to the curvature of the head of the user. The primary object is simple and inexpensive construction, which will hold the hair in coiled condition without tending to work loose. A further object is to utilize magnetic force in tending to hold the hair clasping members of the hair pin in hair gripping position and when a number of hair pins not in use are resting upon a dresser table causing them to adhere together in a group and prevent scattering, thus enabling the user to more readily pick up individual hair pins. Among further objects is to so construct the hair pin that the clasping members can be more easily spread to engage the waves and coils of the hair.

In the accompanying drawing forming part of this specification, Fig. 1 is a side elevation of my improved clip hair pin; Fig. 2 is a plan of the structure shown in Fig. 1; Fig. 3 is a side elevation on a reduced scale of a modified construction of my improved hair pin; Fig. 4 is a plan of the structure shown in Fig. 3; Fig. 5 is a side elevation of another modified construction; Fig. 6 is a plan of the structure shown in Fig. 5, and Fig. 7 is an enlarged side elevation partly in section of the outer ends of a clip hair pin showing another modification of my invention.

The clip hair pin comprising my invention includes a strip of resilient material, preferably made out of any suitable permanently magnetizable material, bent intermediate its length to form a rigid loop or yoke A and two oppositely disposed resilient hair clasping members B and C, forming magnetic pole pieces. These hair clasping members or arms of greater width than thickness extend from the rigid hand grip loop and assume an irregular curve so that when the hair pin is in use it can be made to conform closely with the curvature of the head to obscure the hair pin from observation and prevent catching the web of hair nets. Each of the hair clasping members tapers in thickness from the rigid loop towards its outer extremity to improve the flexibility thereof. The two hair clasping members while in closed position are spaced slightly apart as shown in Fig. 1, and diverge laterally as they approach their outer ends where they meet in closed position. At their outer extremities they are held together against lateral movement by a small downwardly extending detent or teat 10 from the upper member and a cooperating indenture or socket 11 in the lower member. The outer end portion of the lower member is spread or widened to form a thin blade 12 in which the socket is formed and provided with a forwardly extending finger engaging thin lip 13 in extension from the socket and projecting beyond the upper member B. The outer extremity of the upper member is likewise spread or widened into a thin overhanging blade 14 having the teat 10 terminating within the socket 11 and having a pair of laterally extending finger engaging side edges 15 and 16 overhanging the shank portion 17 of the lower member C so that the user can more easily engage and spread the two members when the hair pin is applied in use. Each of the two members B and C is preferably of greater width than thickness while the body or hand grip formed by the loop A may be circular and of any desired cross sectional shape. Slight enlargements 19 and 20 extending laterally from the sides of the upper and lower members adjacent to the loop add rigidity to the loop end portion of the structure so that the flexible members B and C may bend freely and so that the outer extremities assume juxtaposition at all times. In closed position the pair of hair clasping members converge outwardly so that the outer extremities tend to meet and close tightly together.

The hair clasping members are free from crimps being regular in shape between their ends so as to slip more freely into engagement with the waves and coils of hair. The structure is preferably permanently magnetized, being made out of suitable magnetic material, the two opposite arms forming pole pieces and being normally attracted together thus tending to close and remain closed when not in use. Also when closed and a number of the pins are strewn about on a dressing table the magnetized pins are attracted and tend to be held clustered together whereby the user may more readily select a pin from the cluster than if the pins are not magnetized and are strewn at random. The comparatively thin but broad overlying surfaces formed on the outer extremities of the hair engaging members provide broad magnetized pole pieces by which the members more strongly tend to close and remain closed together. Also the lower member 11 assists in guiding the outer ends of the hair pin over the head of the user without catching or scratching the scalp when the hair pin is applied in use. The broad curved end 11 further aids in producing a smoother and closer insertion of

the outer ends into the hair when the hair pin is used.

In the clip hair pin construction shown in Figs. 3 and 4, the general characteristics shown in Figs. 1 and 2 are present. In this construction it will be noted that the general trend of the flexible clasping members D and E is in an irregular curve from the rigid loop F and adapted to conform substantially with the shape of the head of the user. These members however are formed with longitudinal series of pairs of intermediate crimps **21** and **22** between their ends which are adapted to engage and hold the waves and coils of the hair more securely than if said members are plain and regular like in the structure shown in Figs. 1 and 2. Also the outer extremities of the hair clasping members are provided with the teat or detent **23** and cooperating socket **24**, the longitudinal finger engaging lip **25** on the lower member and the overhanging side finger engagements **26** on the upper member as in the preferred structure. The upper crimps **21** and clasping member D are weakened at **35** to increase resiliency of the upepr member and cause the more even distribution of the gripping effort from end to end of the structure.

In the modification shown in Figs. 5 and 6 the hair clasping members G and H are plain and regular in shape, being free from crimps but the general shape of the clip hair pin is slightly varied from that shown in Figs. 1 to 4 inclusive. These members G and H extend from a small rigid loop I and taper in thickness toward their outer ends to increase resiliency. The outer extremities have the teat or detent **27** in the upper member G, the socket **28** in the lower member H, the lower exposed longitudinal finger engaging lip **29**, and the pair of overhanging finger engaging side edges **30** on the upper member. In the modifications described above the structure may be made out of permanently magnetizable material and are magnetized in the same manner and for the same purpose described in connection with the construction shown in Figs. 1 and 2.

In Fig. 7 another modification of my invention is shown in which the outer ends of the upper and lower members I and J of my improved clip hair pin is shown. In this construction the lower member has the same type of enlarged outwardly projecting finger engaging end **31** and socket **32** as described above. For the purpose of strengthening the magnetic attraction and closing tendency between the members I and J for more securely holding the hair and attracting and holding the clip hair pins clustered together, the upper and lower members are provided with spots **33** and **34** of intensified magnetic material. These spots may be made out of an alloy of aluminum, iron, nickel and cobalt by which the magnetic strength is materially strengthened to increase the closing tendency of the opposite side members of the pin. These spots are shown spot welded on said members. The intensified magnetic action between the side members of the pin may be accomplished in other ways and by other means than as described such for instance by coating, fusing, riveting or brazing surfaces of the augmenting magnetic material in any desired form on said members.

In accordance with the patent statutes, I have described the principles of operation of my invention together with the construction thereof which I now consider to represent the best embodiment thereof, but I desire to have it understood that the construction shown is only illustrative and that the invention can be carried out by other means and applied to uses other than those above set forth within the scope of the following claims.

I claim:

1. An article of the class set forth, comprising, a member of permanently magnetisable material adapted to engage and hold coils of hair and having spring arms tending to close and to be retained closed together at their outer ends under spring pressure, said outer ends having magnetic poles functioning to augment the holding tendency of said outer ends together and retain the arms in hair clasping condition.

2. An article as defined in claim 1 in which the magnetic poles are intensified to augment the holding tendency of the outer ends of the spring arms.

3. A clip hair pin of the character described, comprising, a body portion formed with a pair of resilient hair clasping members extending therefrom, said pair of hair clasping members having their outer ends in separable spring closed adjacent relation to each other, one of the outer ends of said members having a wide thin blade forming a guide surface to assist in smoothly guiding the outer ends of the hair pin over the surface of the head of the user when the hair pin is applied in use, and said blade having a finger engaging lip projecting longitudinally beyond the upper member.

4. A hair pin of the character described, comprising, a large substantially rigid loop portion forming a hand grip having a pair of resilient hair clasping members extending therefrom and having their outer ends formed with broad thin blades adjacent to each other and serving to guide the ends on the head.

5. A clip hair pin of the character described, comprising, a large rigid loop portion forming a hand grip having a pair of resilient hair clasping members extending therefrom and having their outer ends in spring closed adjustment and intermeshing with each other, said hair clasping members having reinforcements adjacent to said loop adapted to aid rigidity to the loop end portion of the structure.

6. A hair pin of the character described, comprising, a large substantially rigid loop portion forming a hand grip having a pair of resilient hair clasping members extending therefrom in a curve substantially conforming with the curvature of the head and having their outer ends formed with broad thin blades adjacent to each other and serving to guide the ends on the head.

7. A hair pin of the character described, comprising, a large substantially rigid loop portion forming a hand grip having a pair of resilient hair clasping members, extending therefrom in a curve substantially conforming with the curvature of the head and having thin outer ends formed with broad thin blades adjacent to each other and serving to guide the ends of said members on the head, and said hair clasping members also having intermeshing longitudinal crimps to engage and securely hold waves and coils of the hair under the closing tendency of said clasping members.

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