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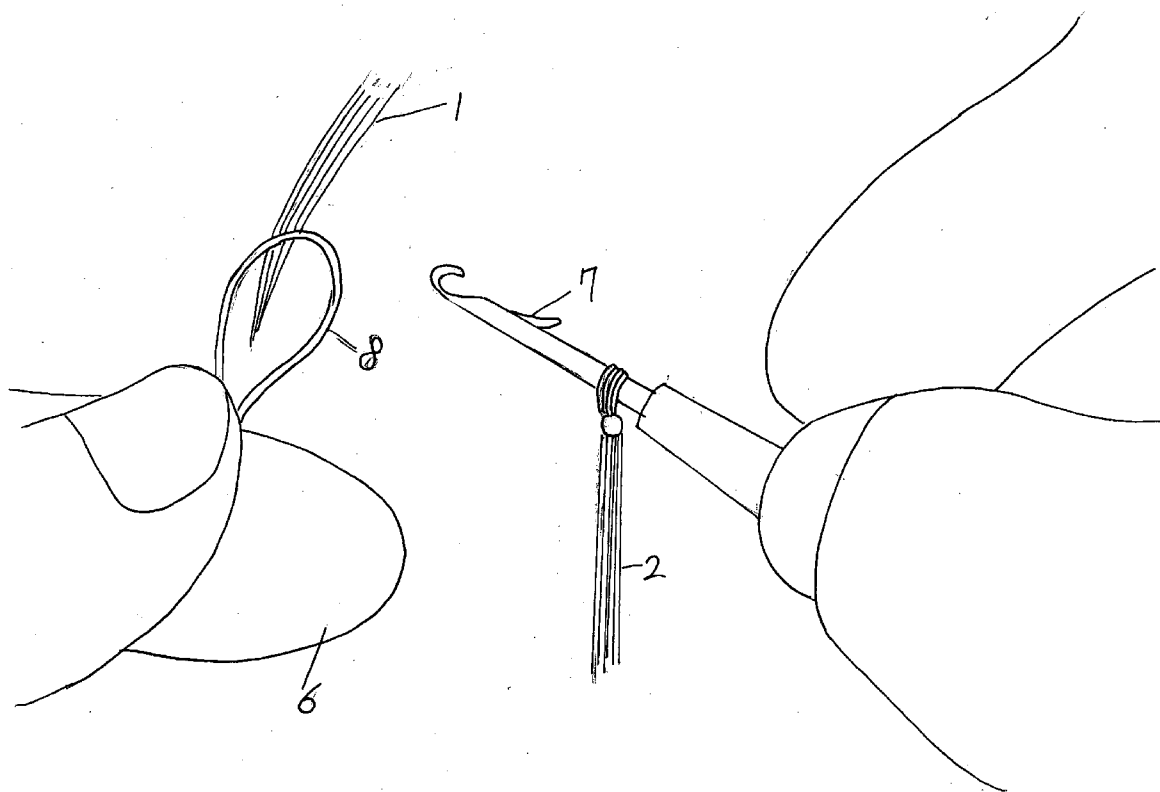
(19) **United States**(12) **Patent Application Publication**  
**Oh**(10) **Pub. No.: US 2009/0071492 A1**(43) **Pub. Date: Mar. 19, 2009**(54) **EXTENSION HAIR PRODUCTION**(52) **U.S. Cl. .... 132/201; 132/53**(76) **Inventor: Chang Hyun Oh, Glendale, CA**  
**(US)**(57) **ABSTRACT**

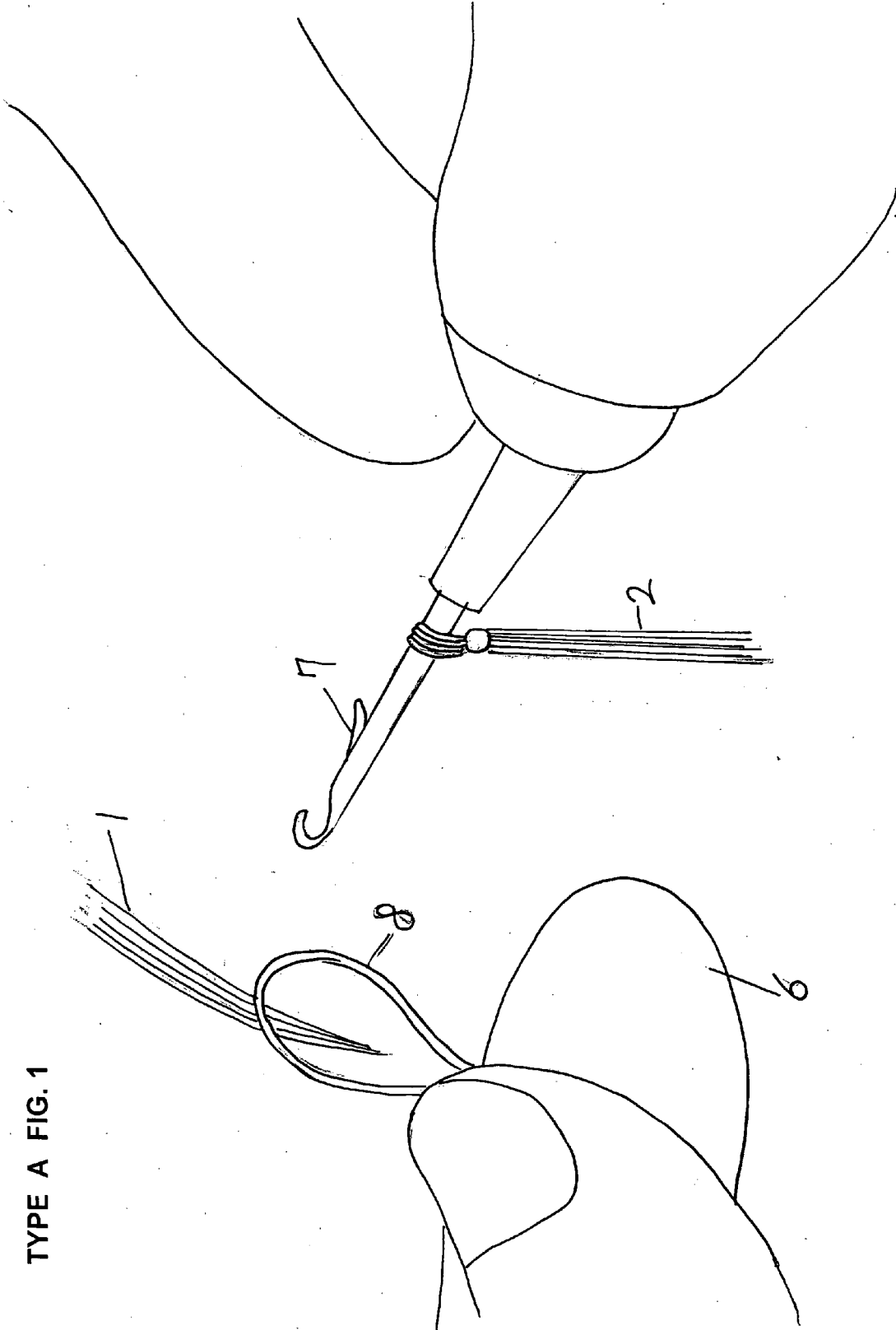
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**GLENDALE, CA 91207 (US)**

The present invention comprises various hair extension methods for implementing without glue. Our system does not require heat or chemicals for attachment or strong solvents for removal. Anyone familiar with the hair industry knows what damage that these harsh chemicals can cause. This invention looks and feels completely natural and are easy to wash and style and also can be colored or permed. Our system is so gentle that it can be used on the most sensitive and difficult areas such as the top area of head. It is as light as feather, you won't even know that you're wearing it.

(21) **Appl. No.: 11/900,662**(22) **Filed: Sep. 13, 2007****Publication Classification**(51) **Int. Cl.**  
**A41G 5/00 (2006.01)**

This hair extension method can add more length and volume without the discomfort of weaves and glues. It's gentle, light and ultra thin. User can even add hair to the sensitive top area.





TYPE A FIG. 1

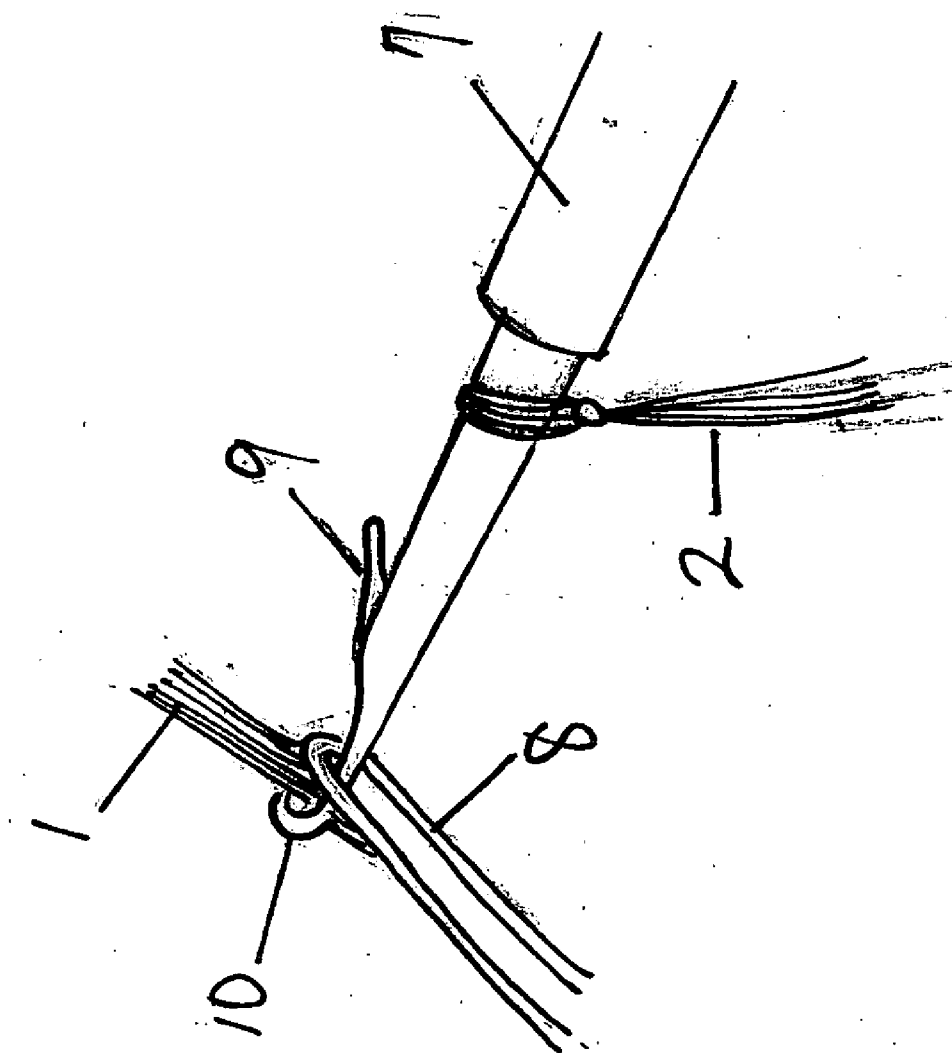
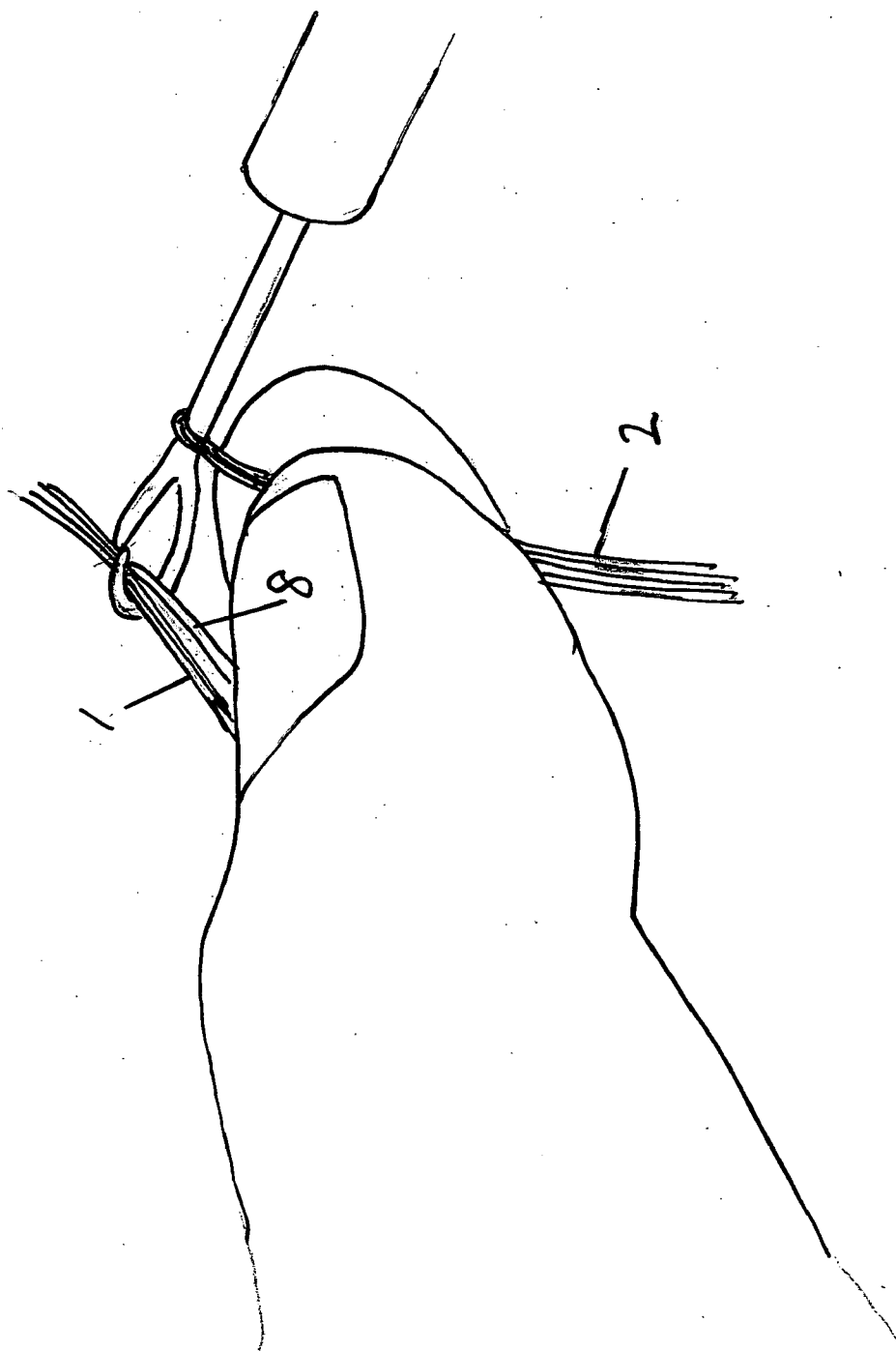
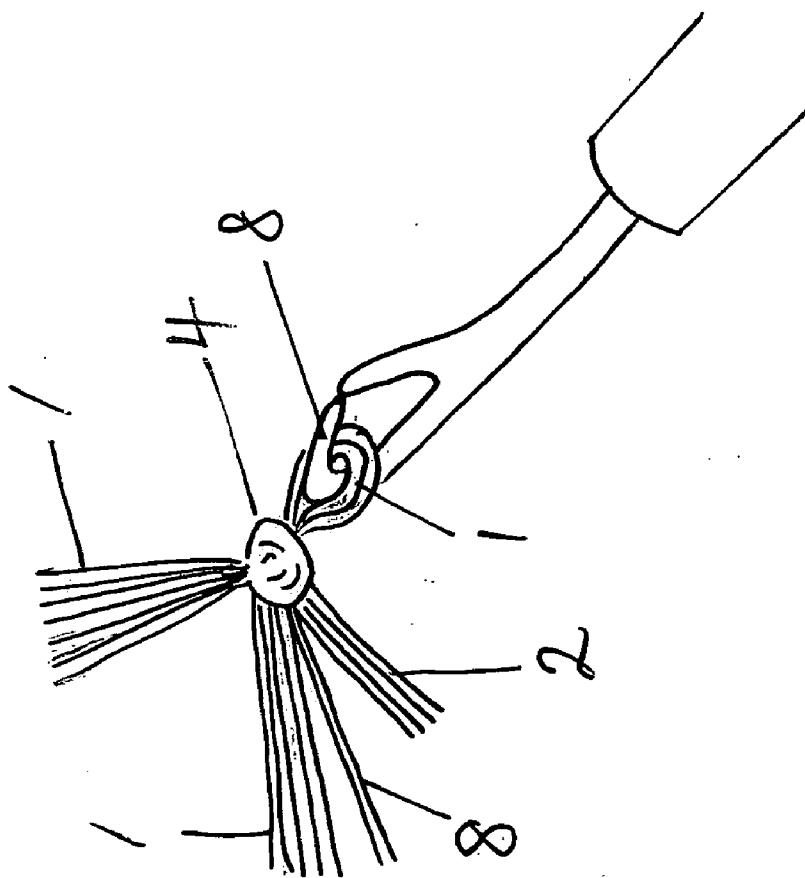


FIG. 2

FIG. 3





**FIG.4**

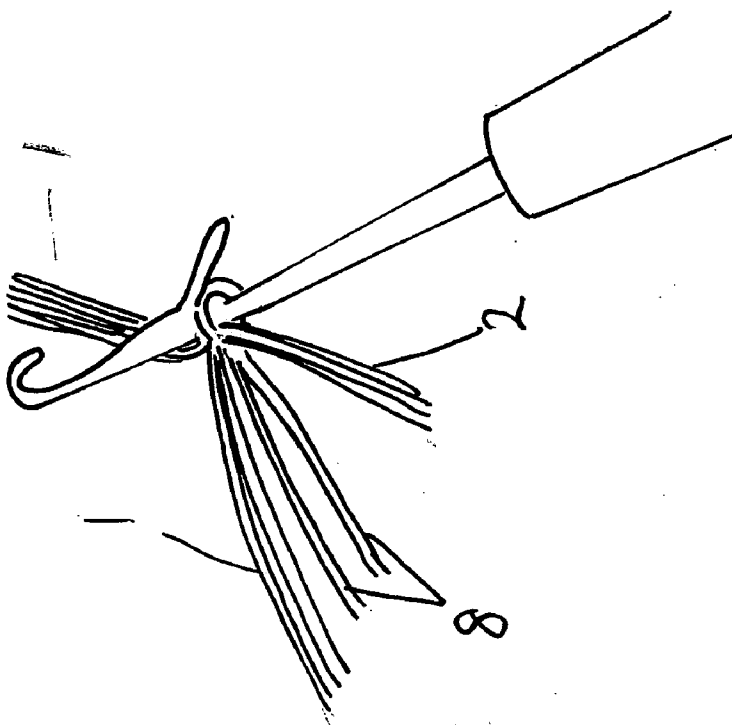


FIG. 5

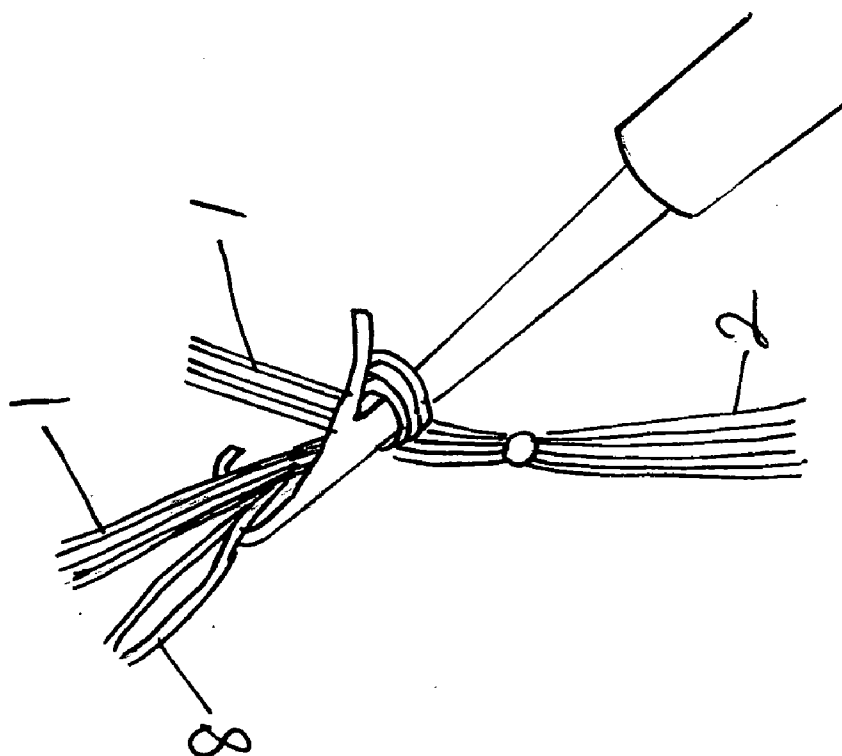
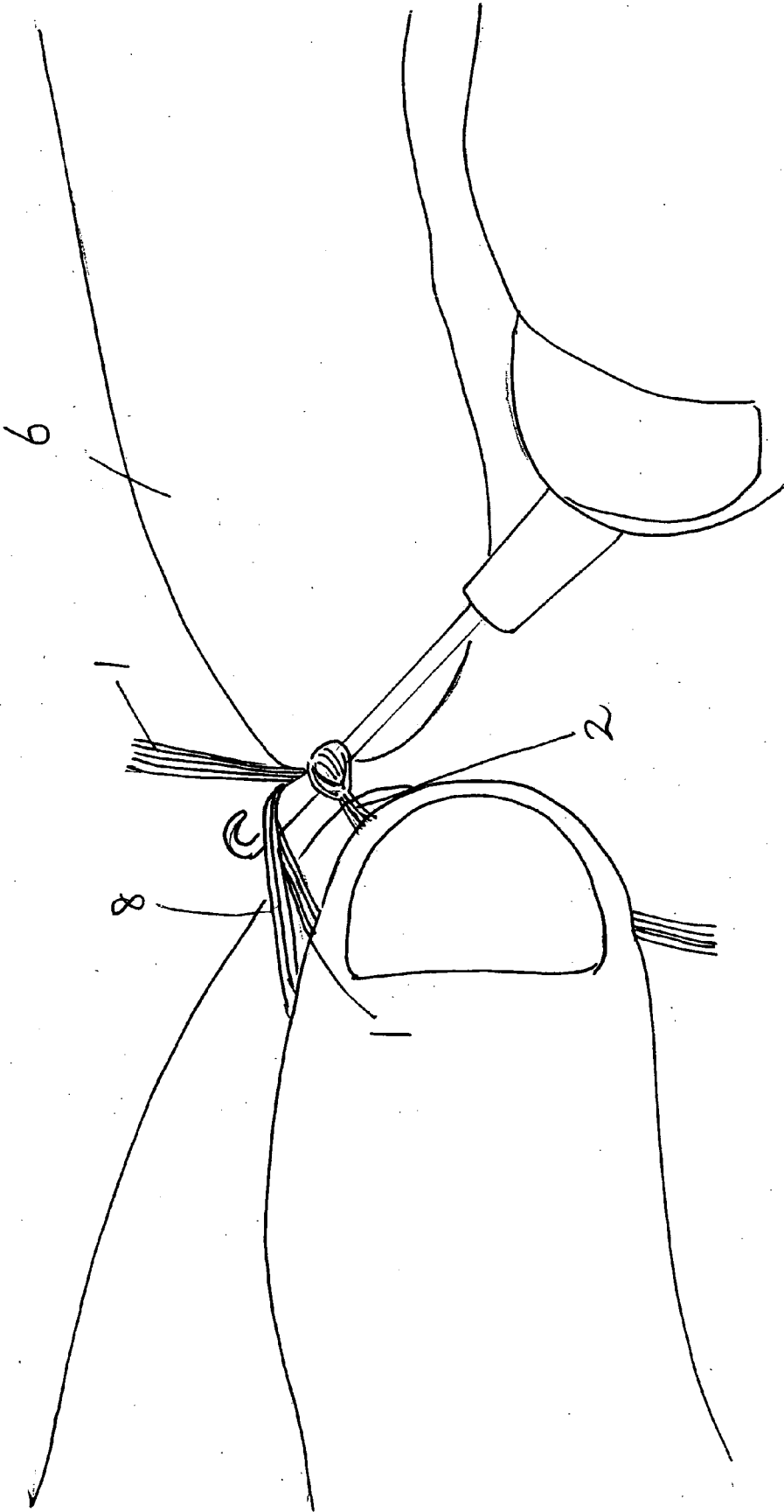


FIG. 6

FIG.7





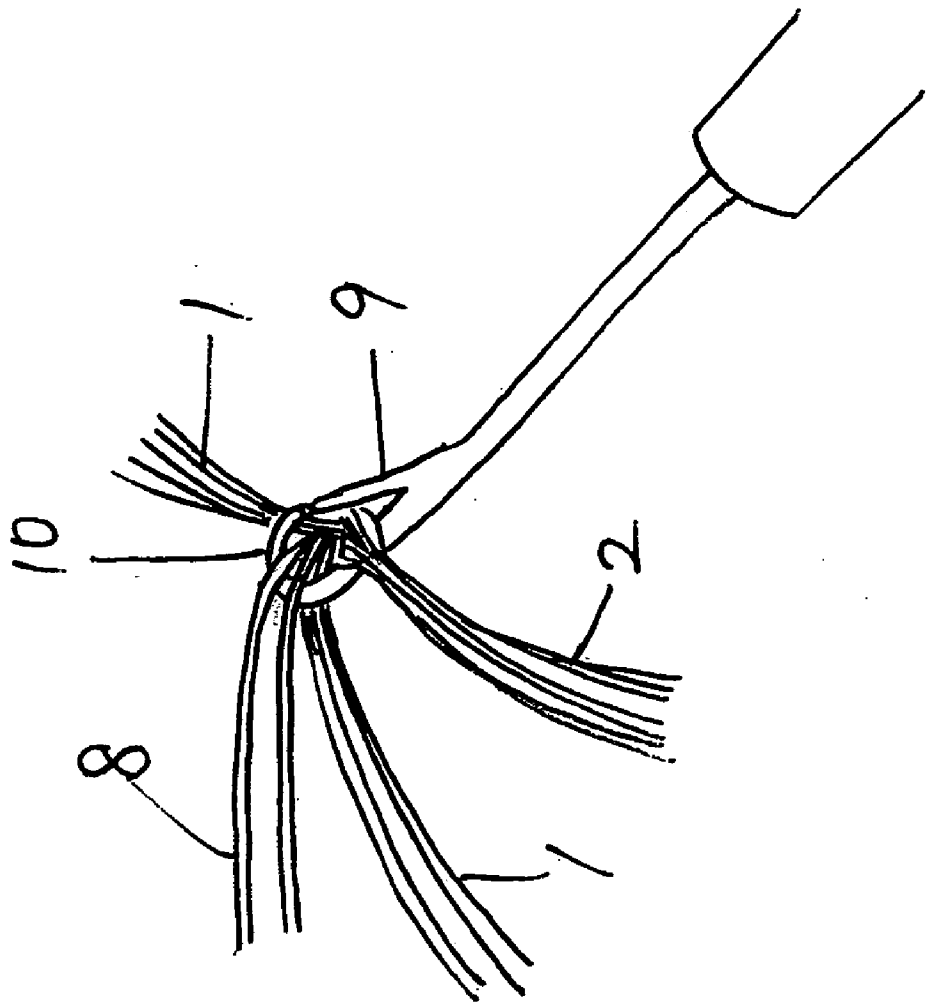
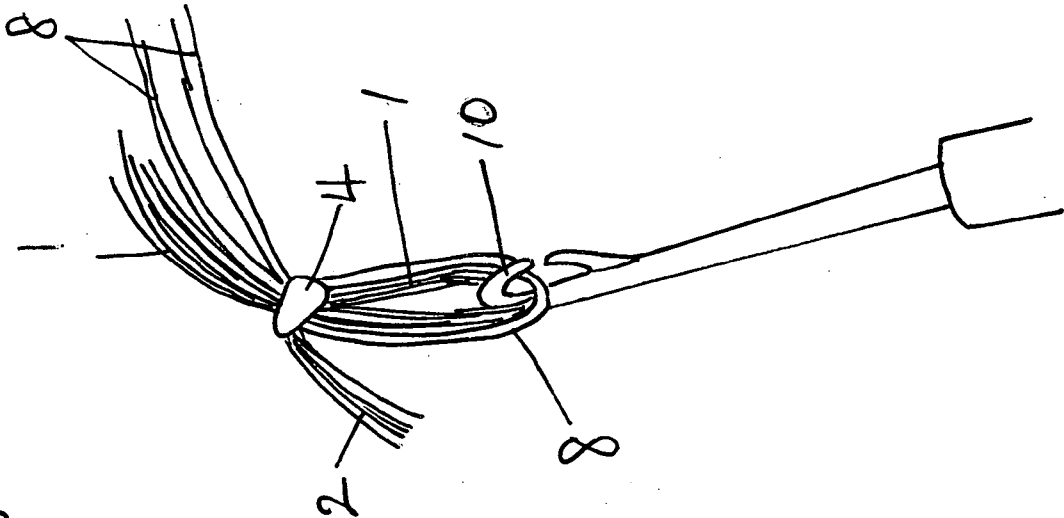


FIG.8

FIG. 9



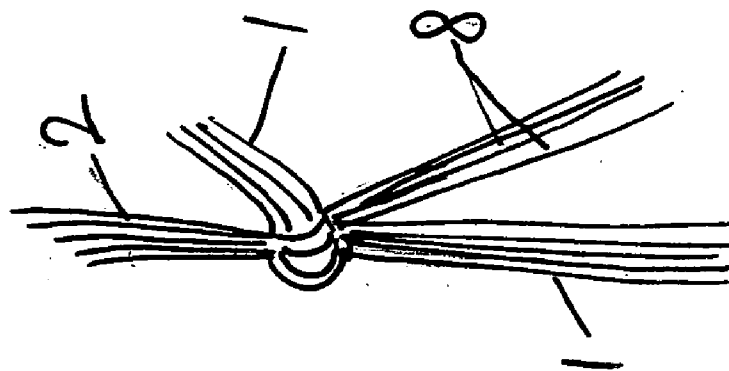
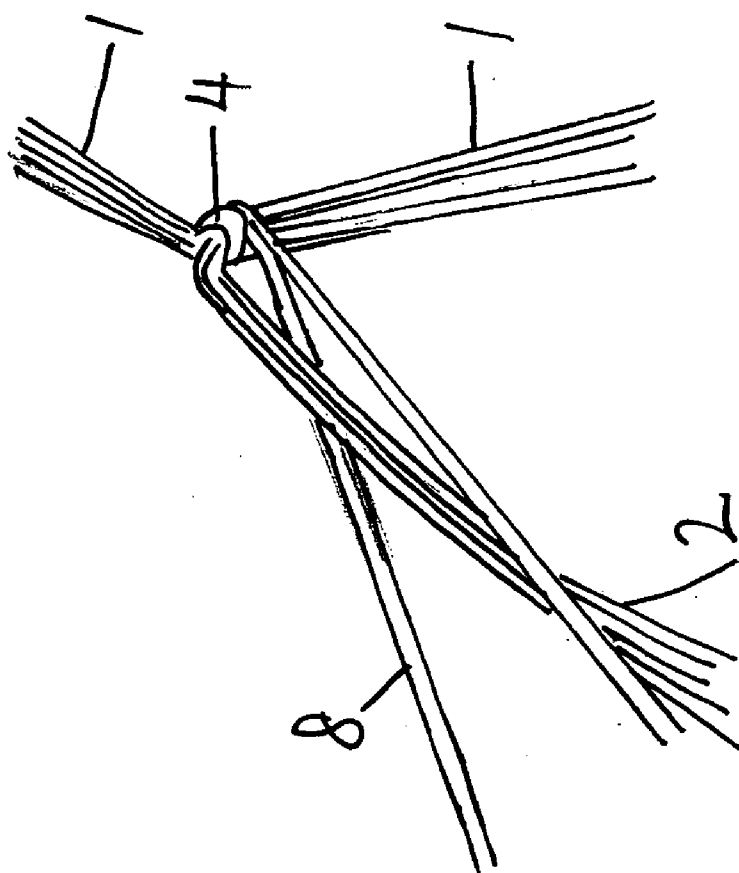


FIG. 10

FIG. 11



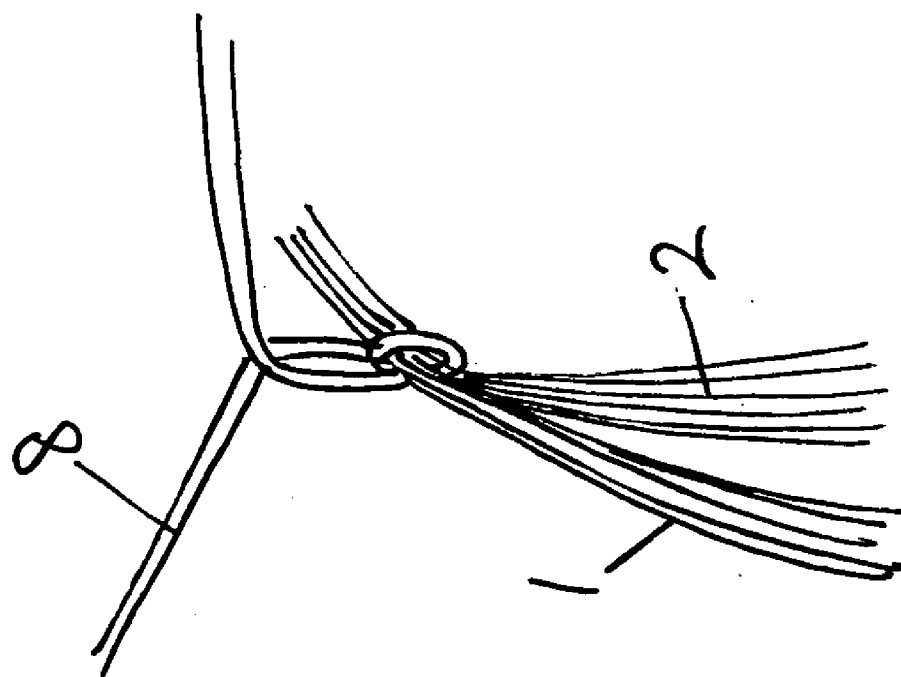


FIG. 12

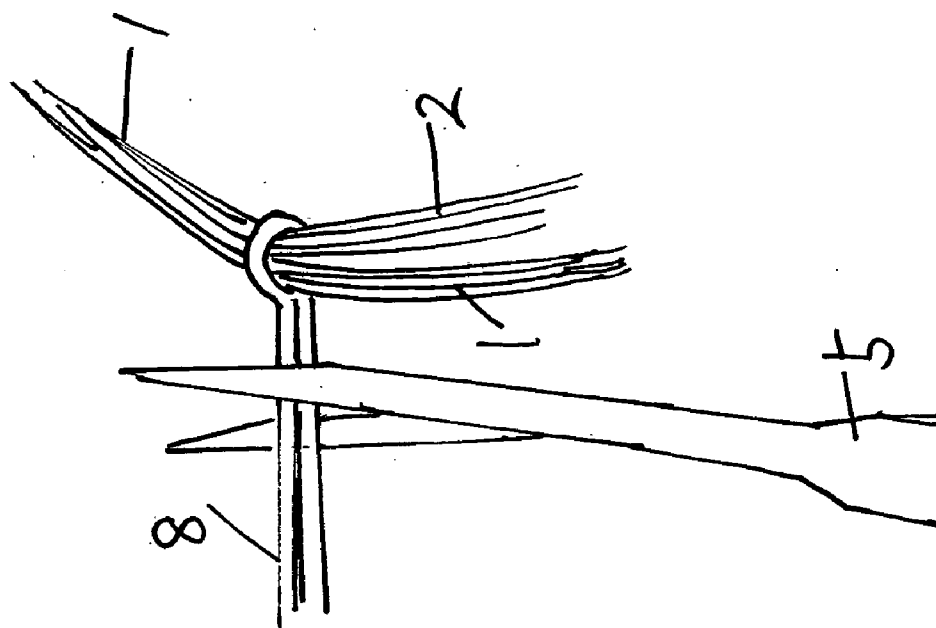
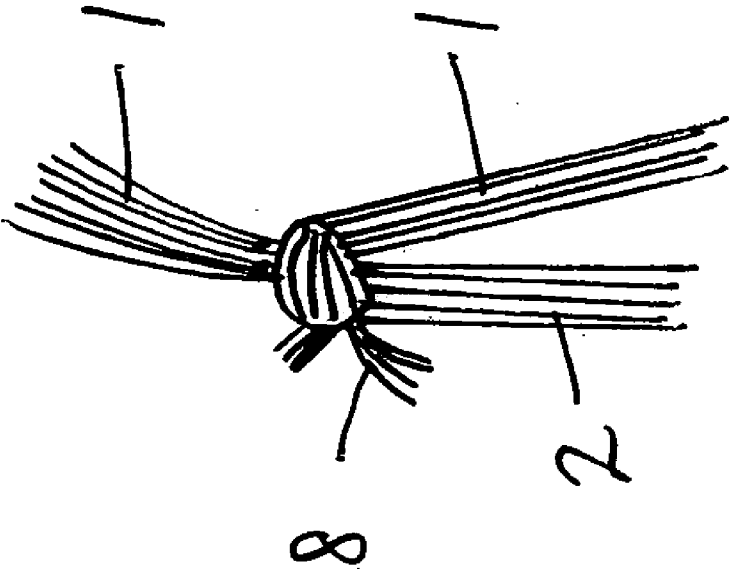


FIG. 13

FIG. 14



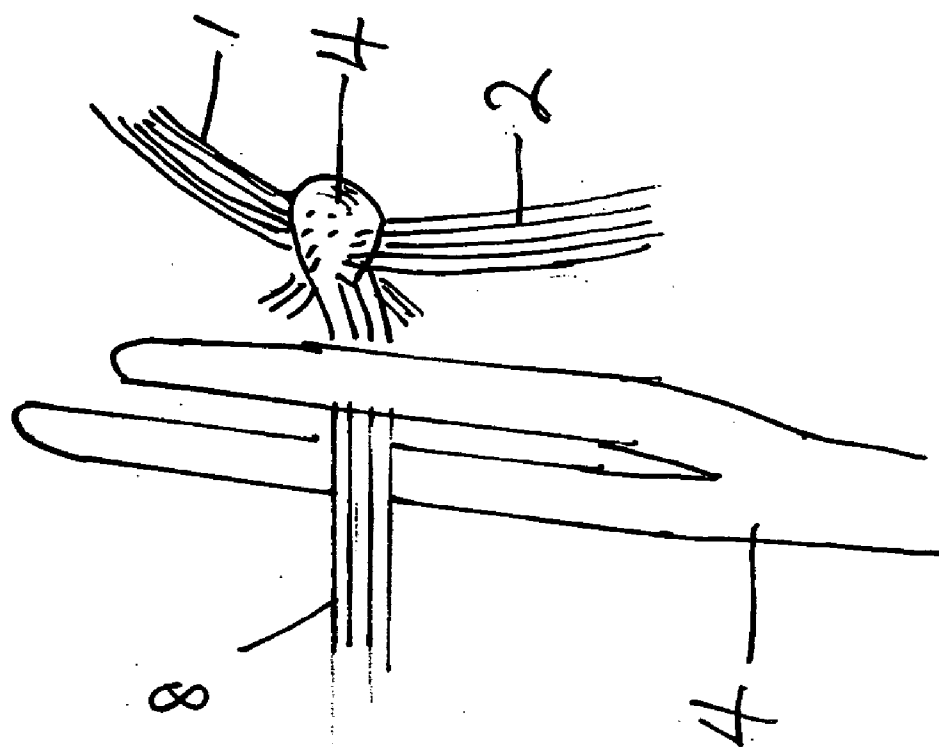
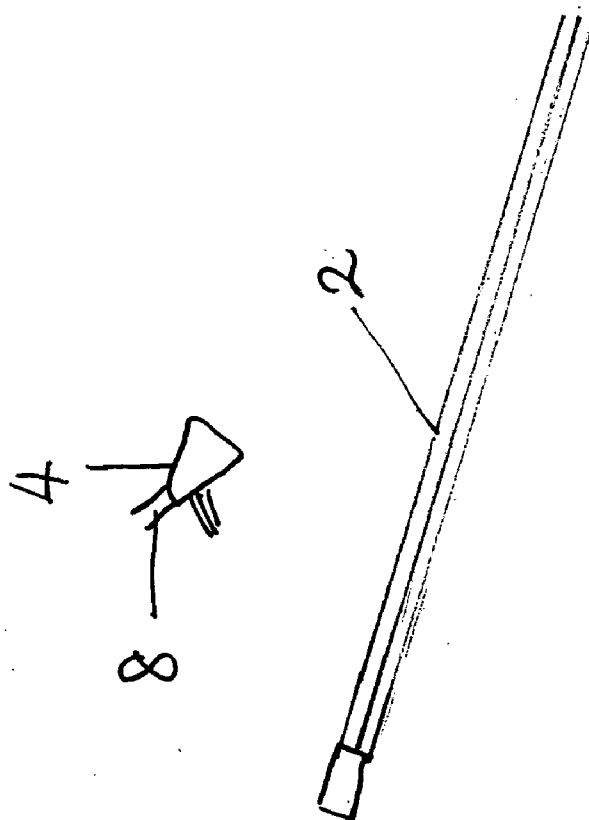
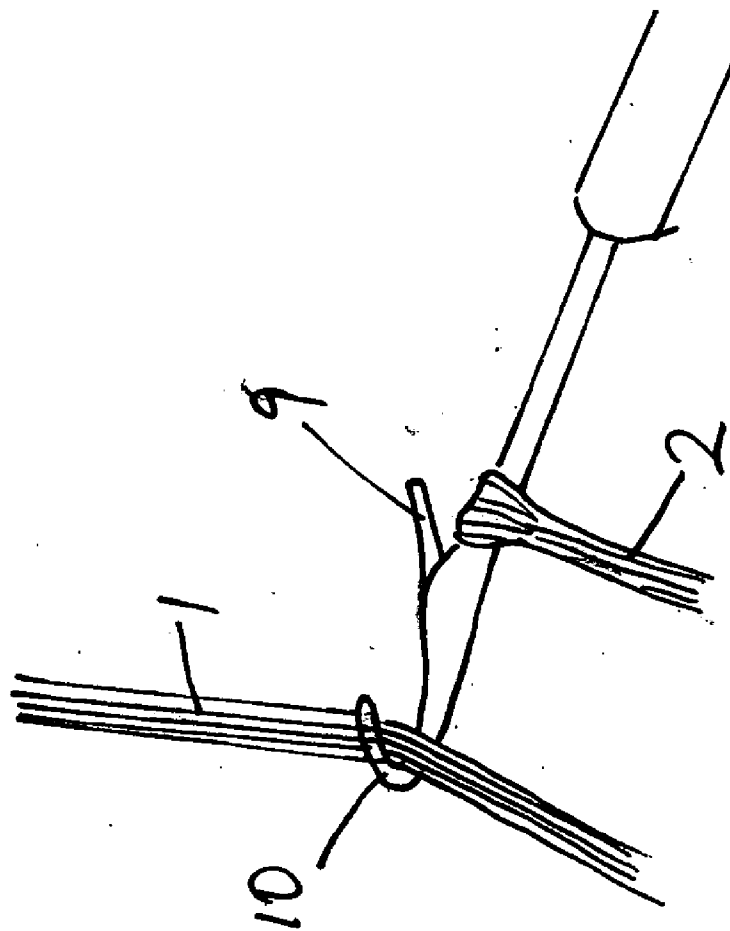


FIG. 15



FIG.16





TYPE B FIG. 17

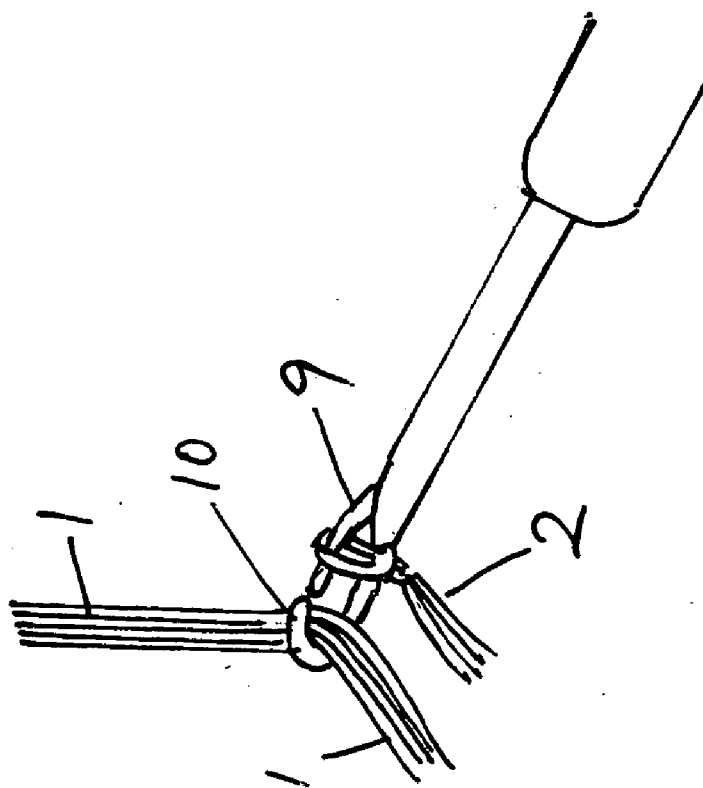


FIG.18

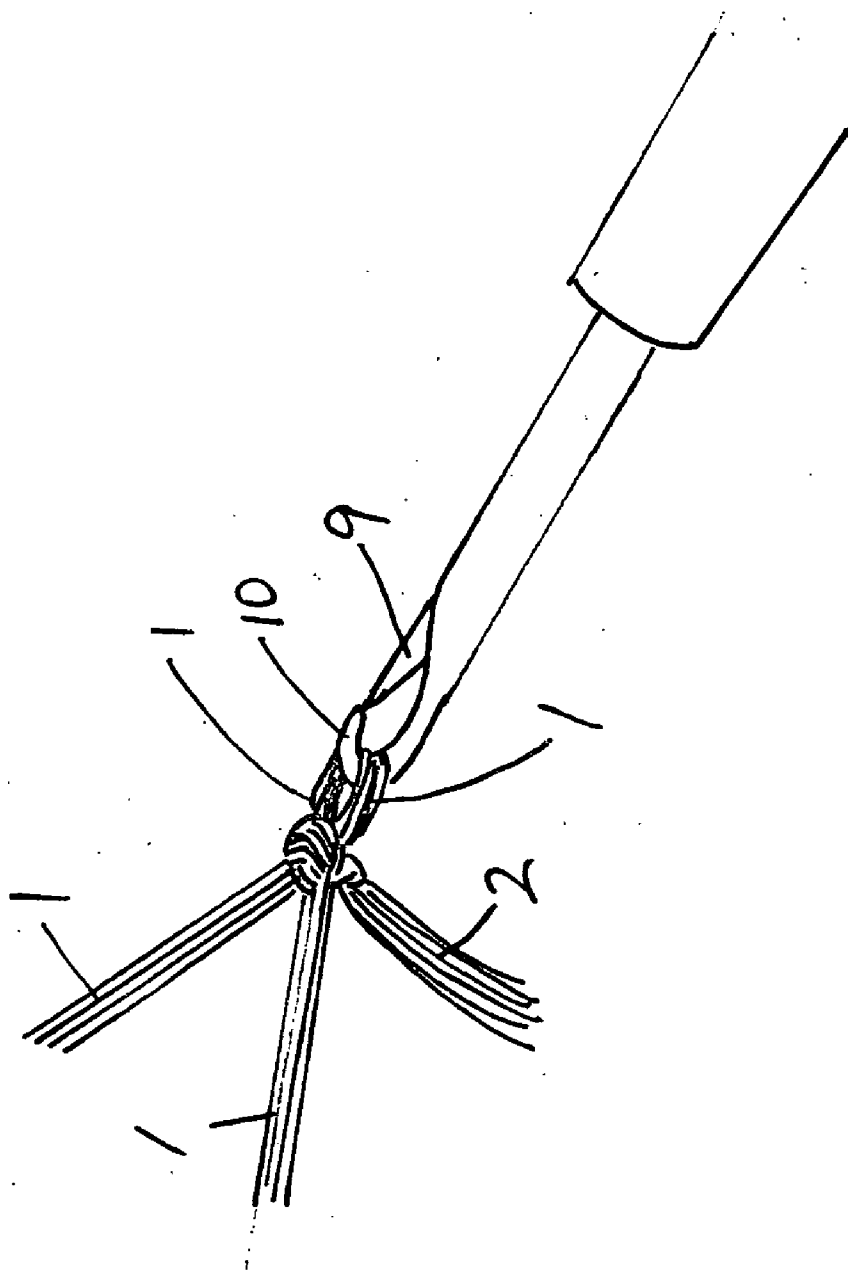


FIG.19

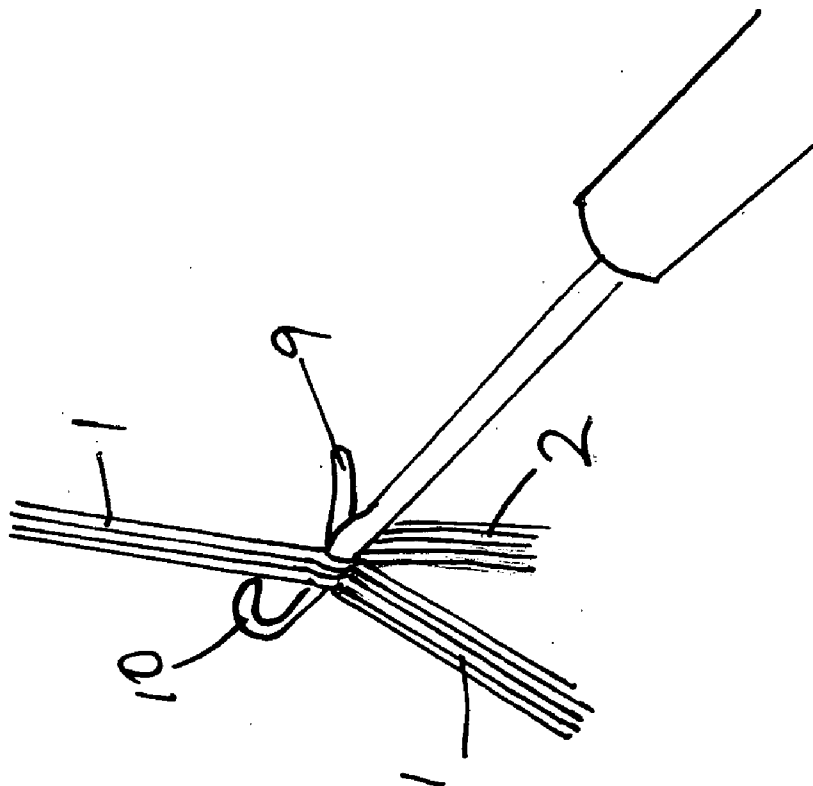


FIG. 20

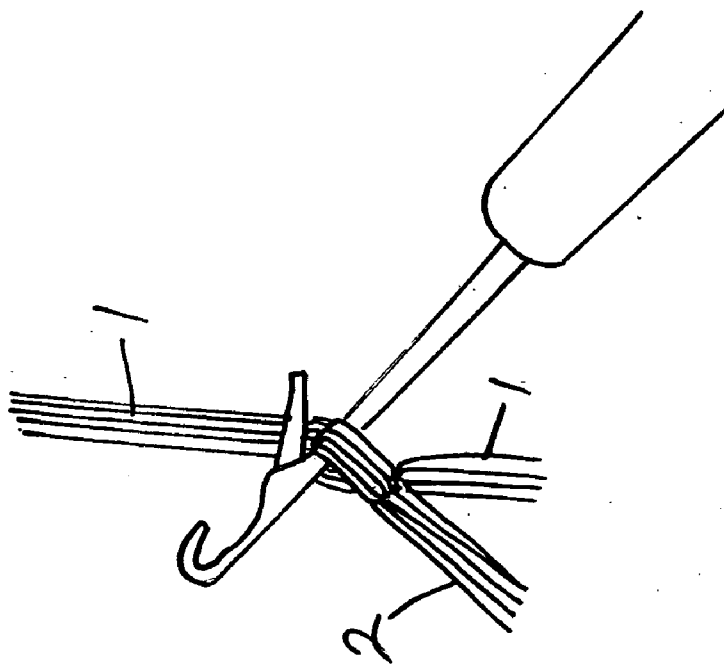


FIG. 21

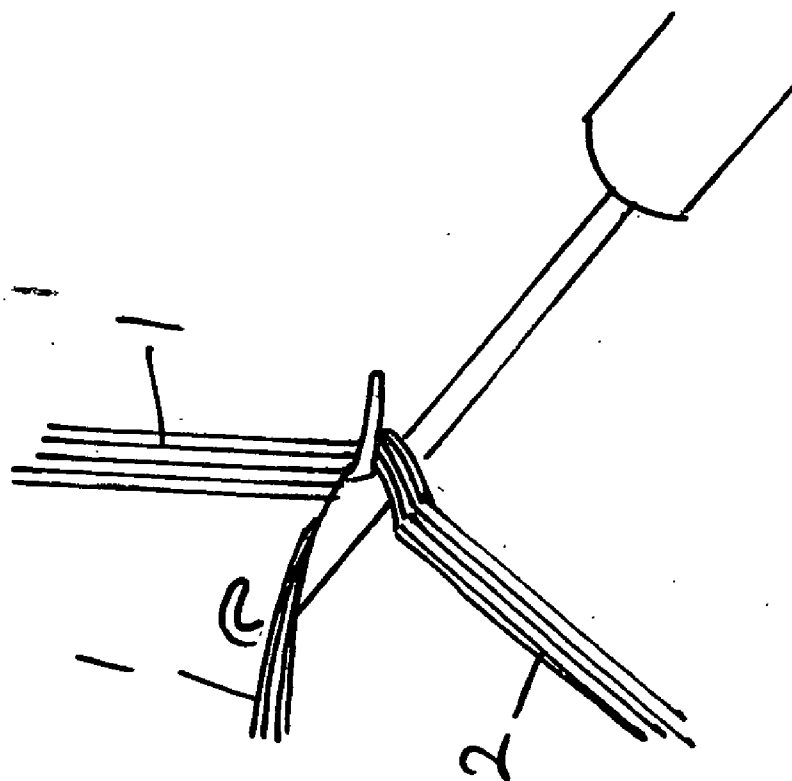
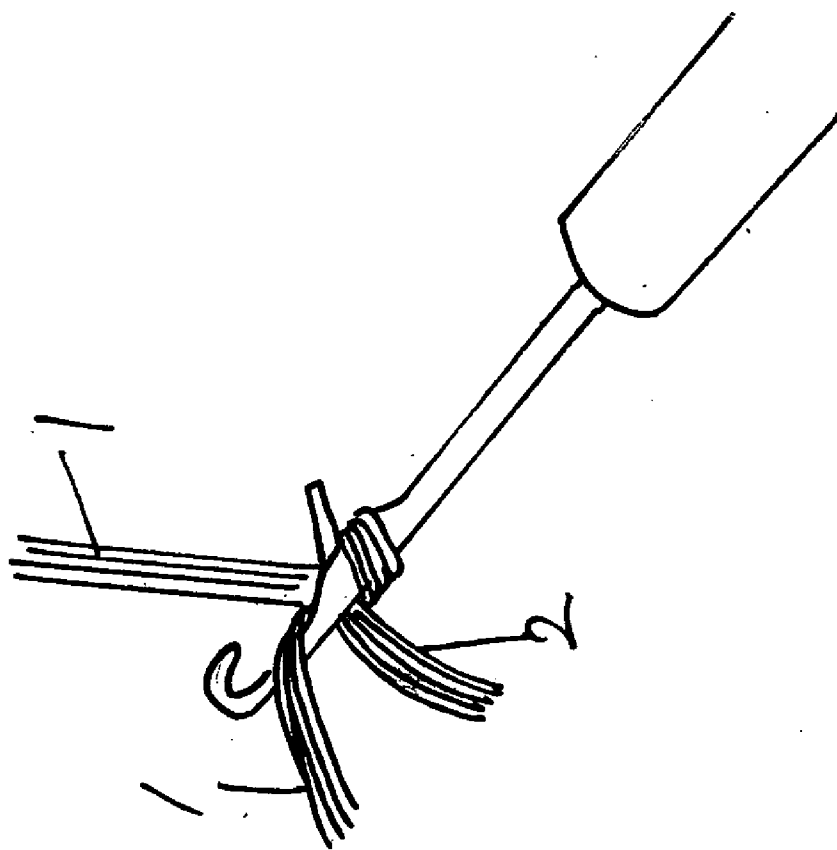


FIG.22

**FIG. 23**





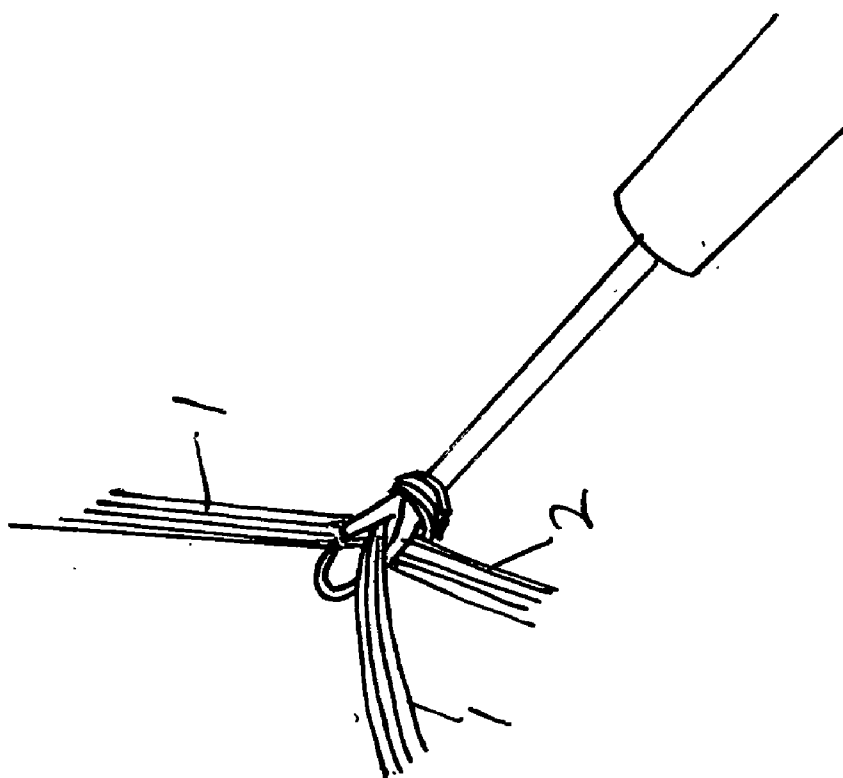


FIG.24

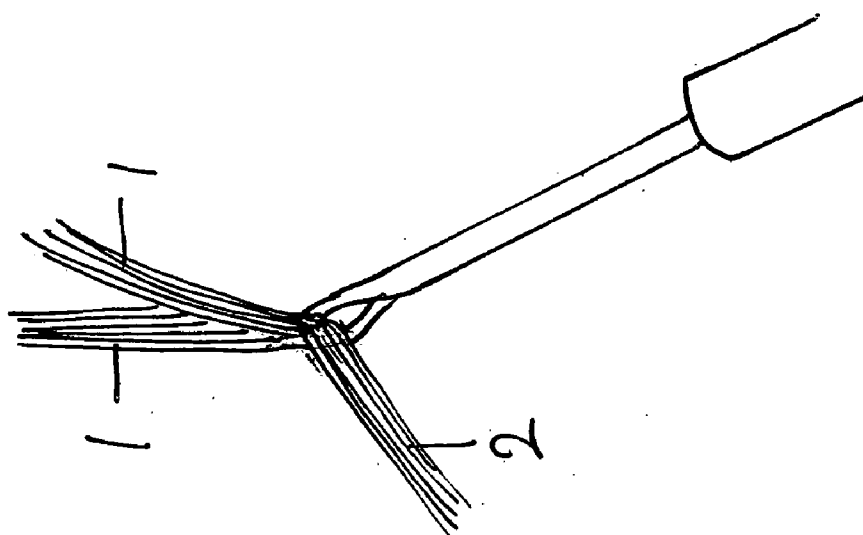


FIG.25

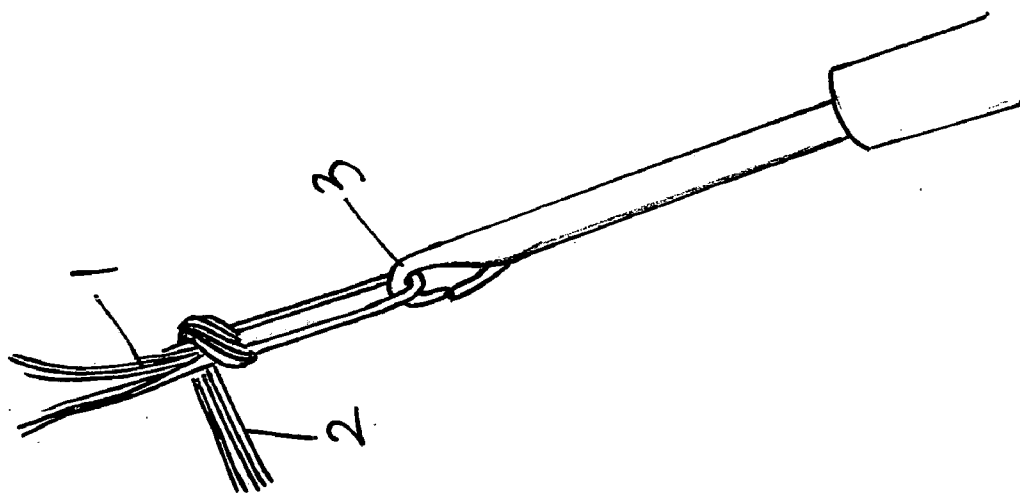


FIG. 26

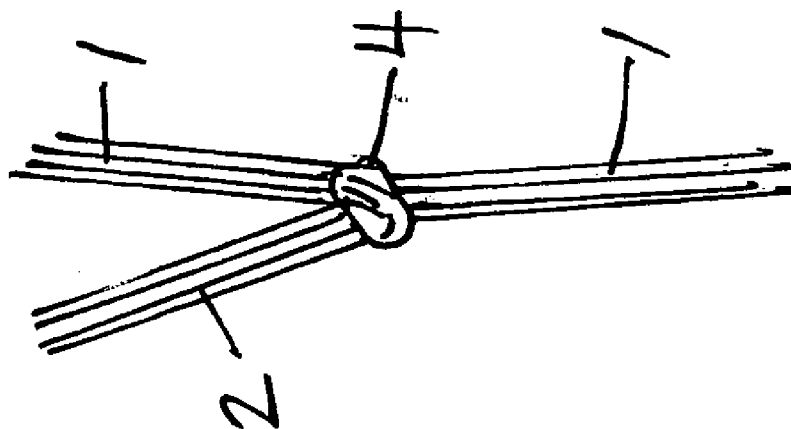


FIG. 27

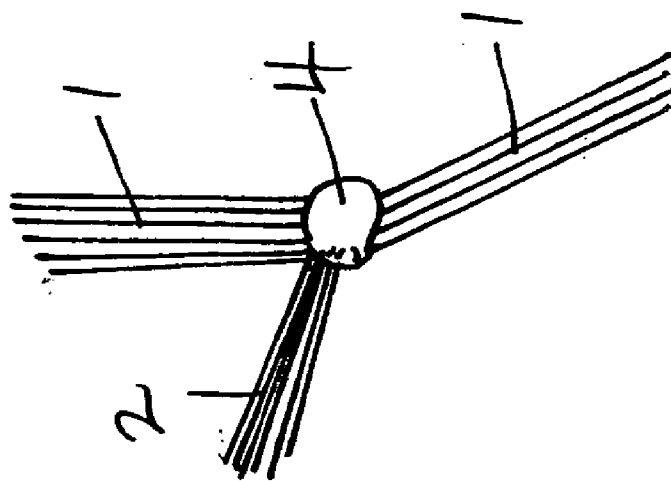


FIG. 28

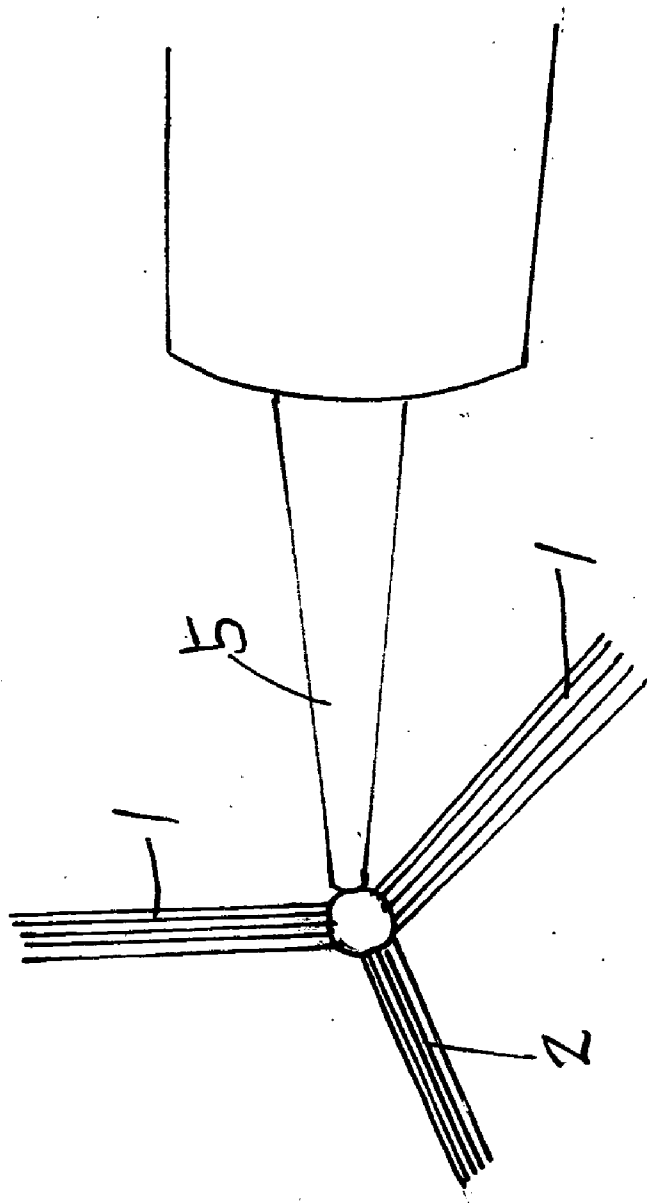
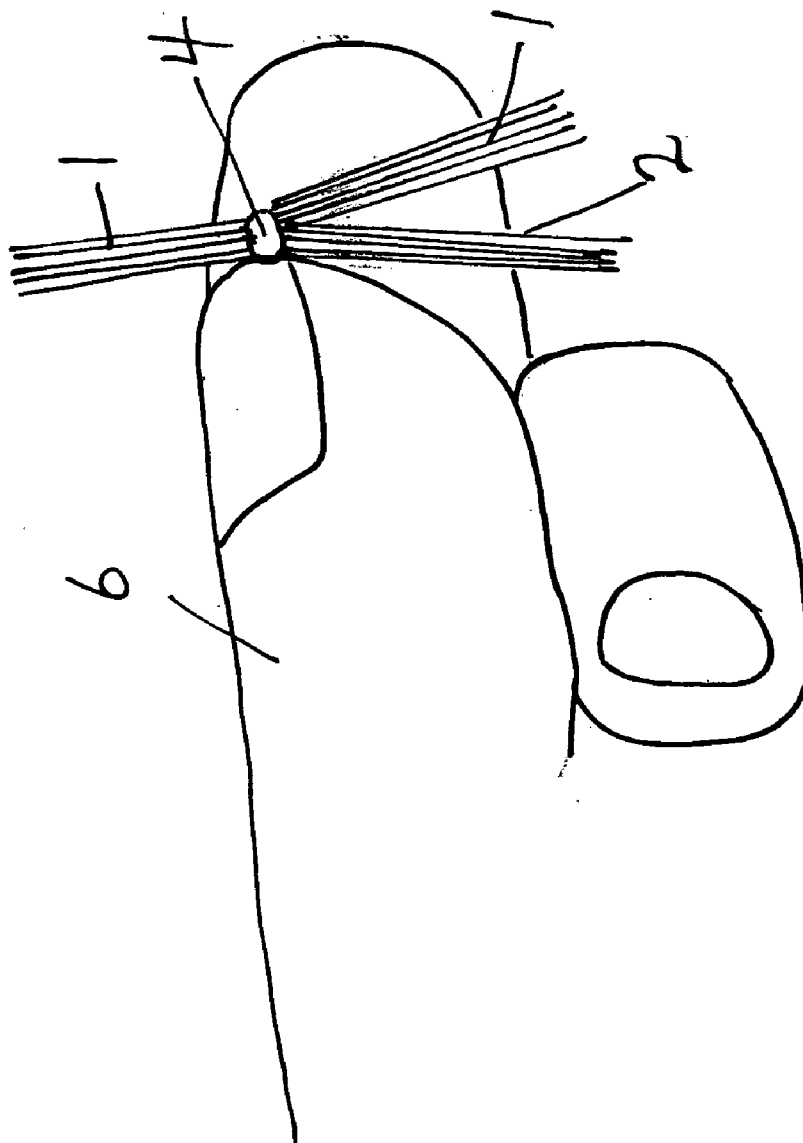


FIG. 29

FIG. 30



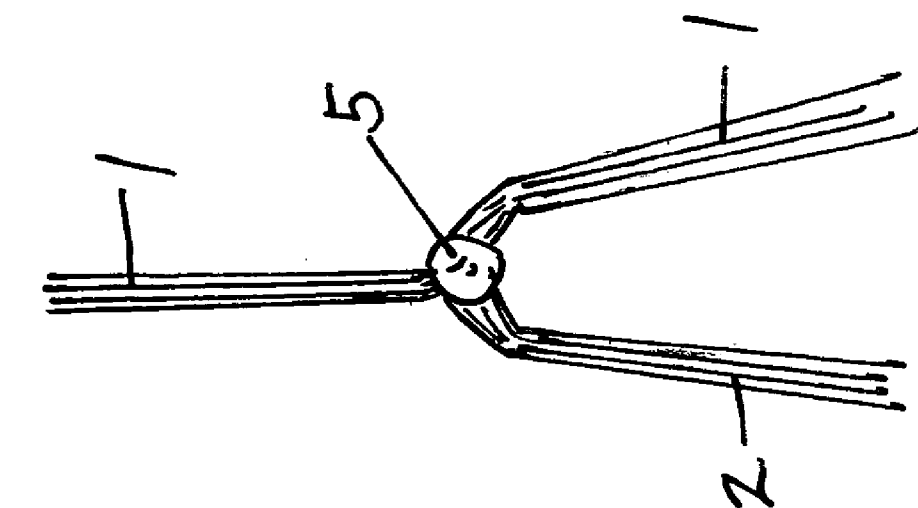


FIG. 31



FIG.32

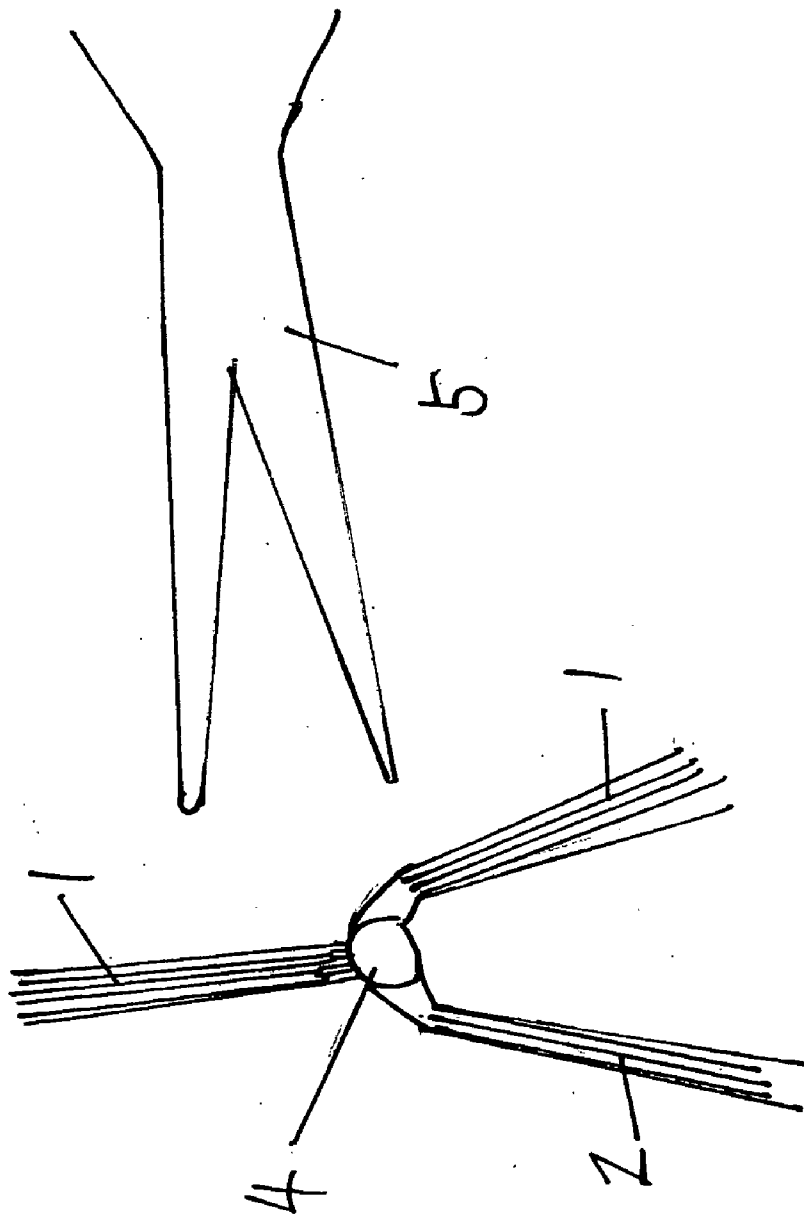


FIG.33

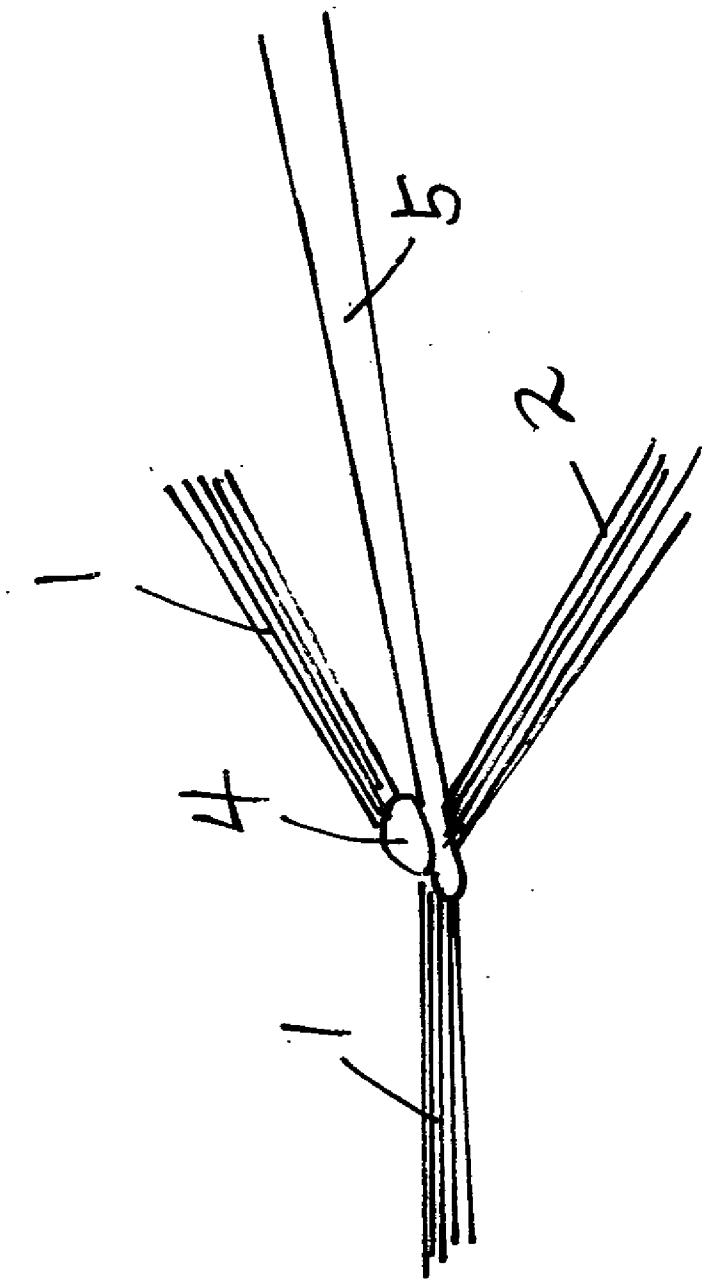
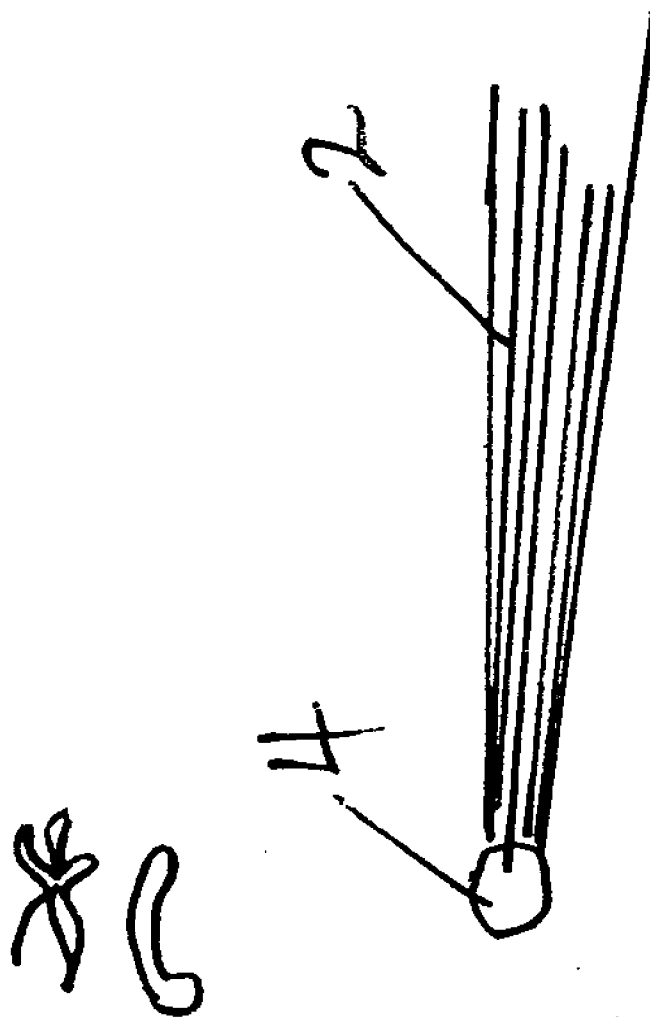
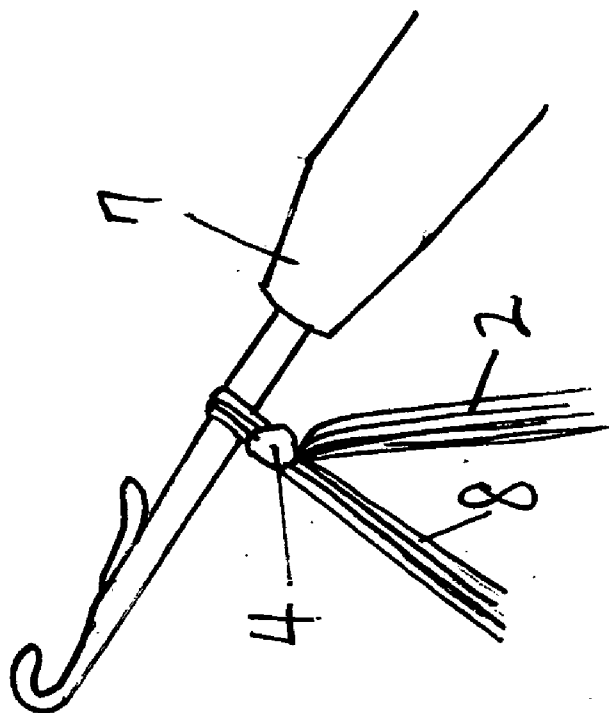
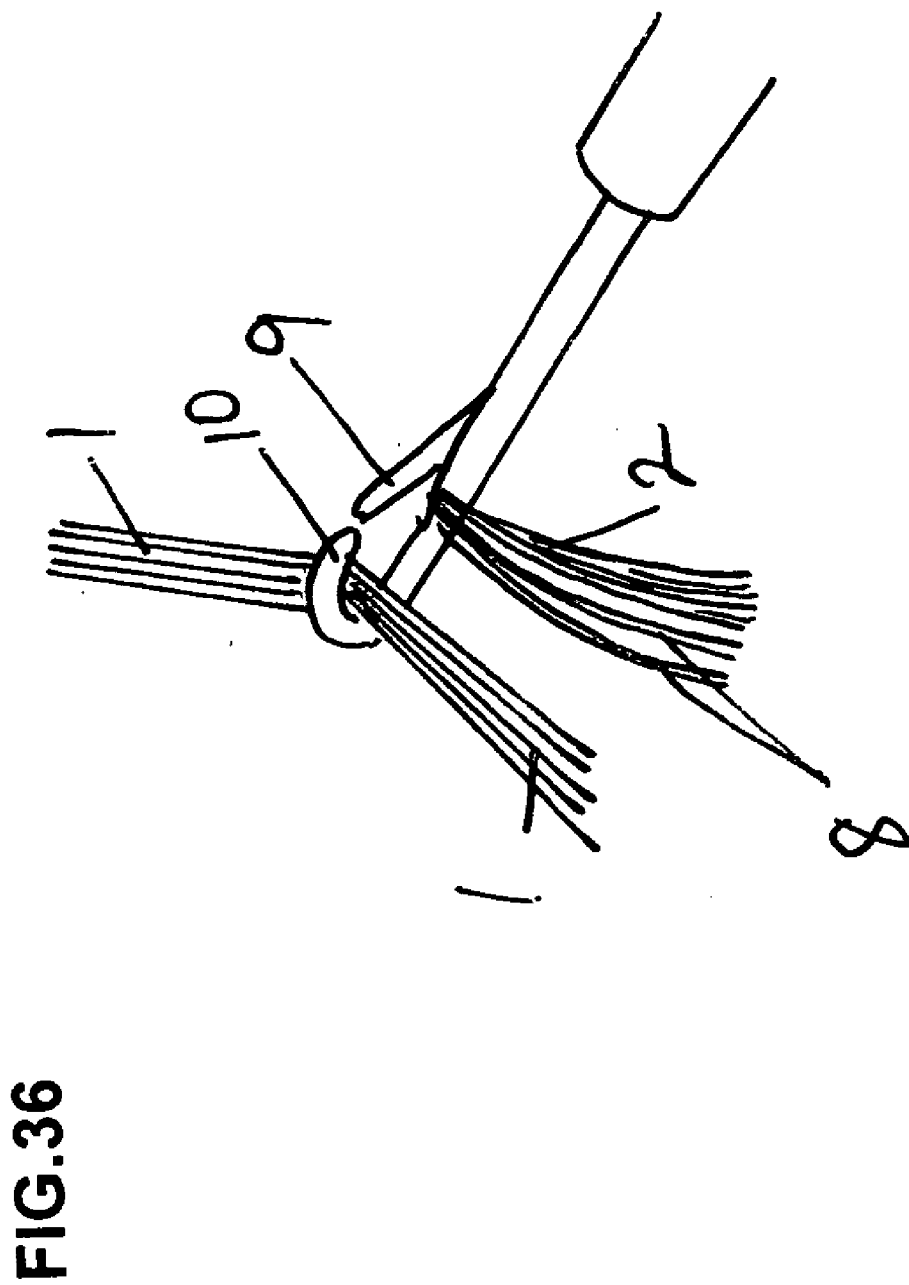


FIG.34





TYPE C FIG. 35



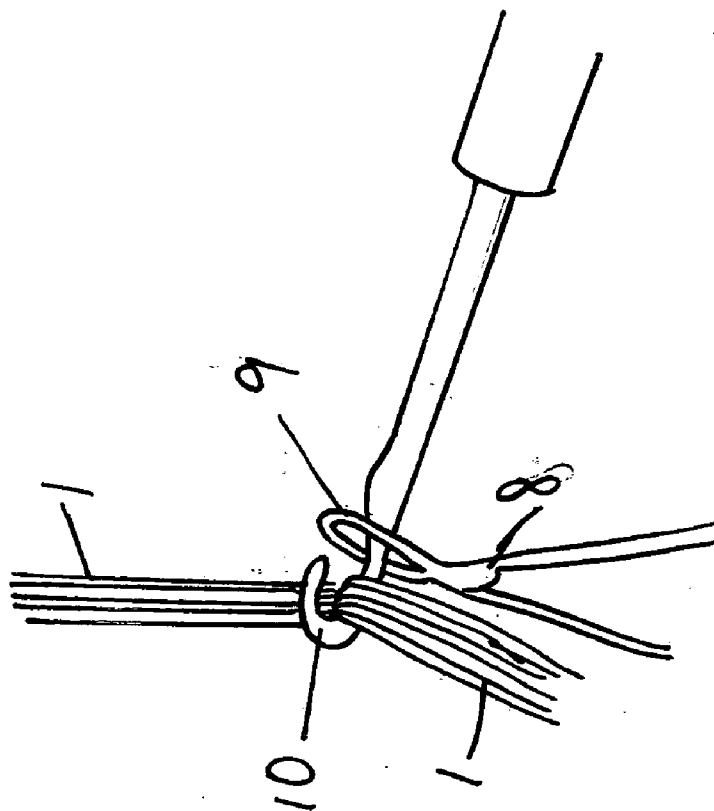


FIG.37

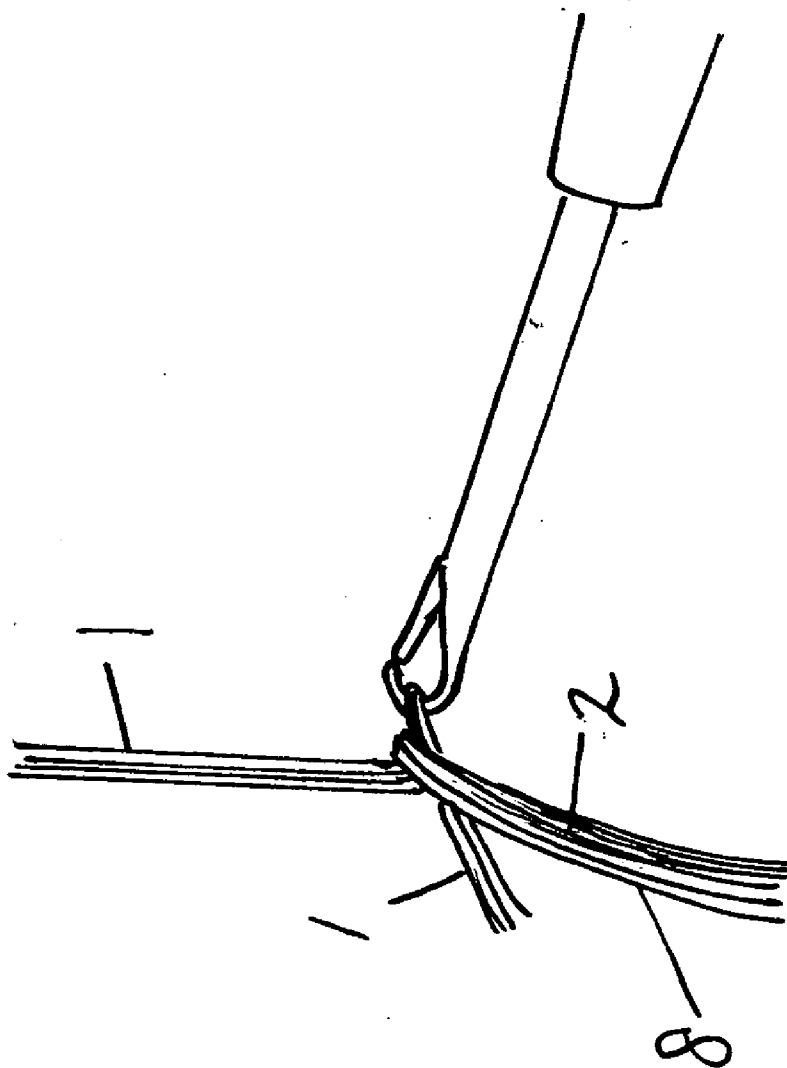


FIG.38

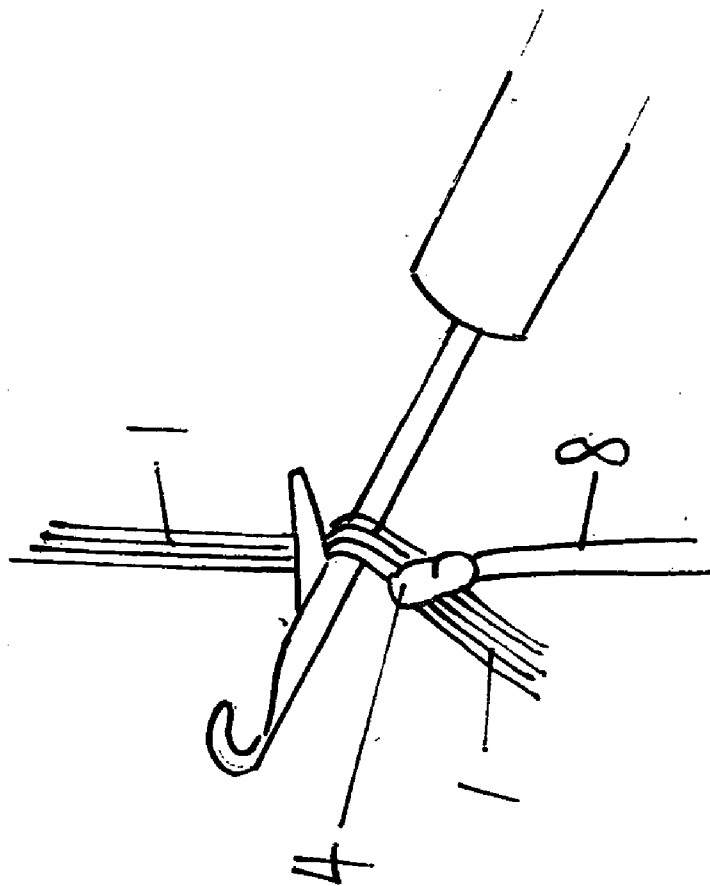


FIG. 39



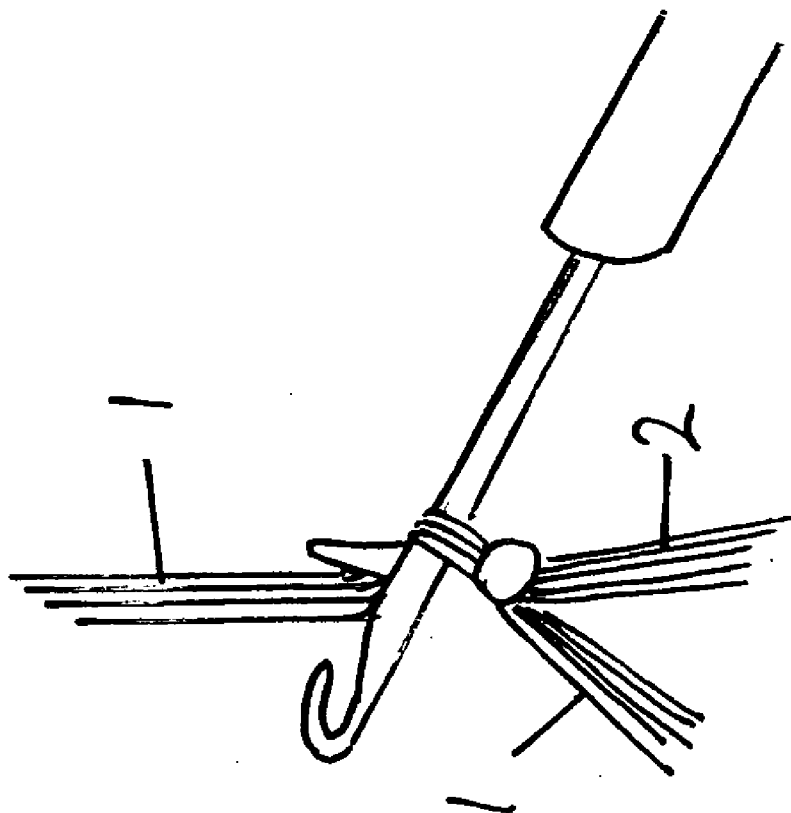
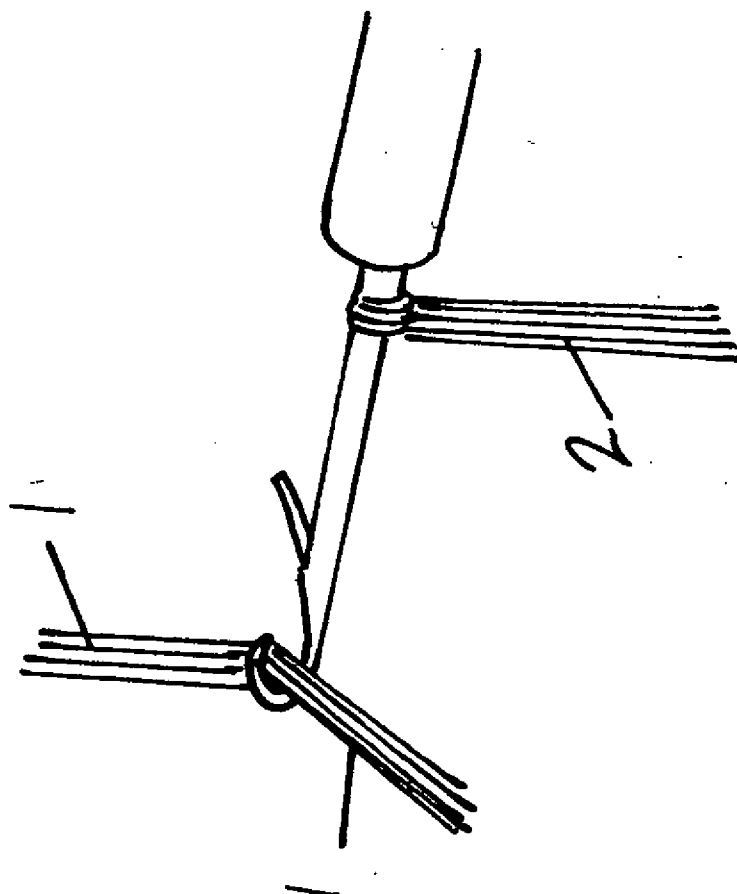


FIG. 40



TYPE D FIG. 41

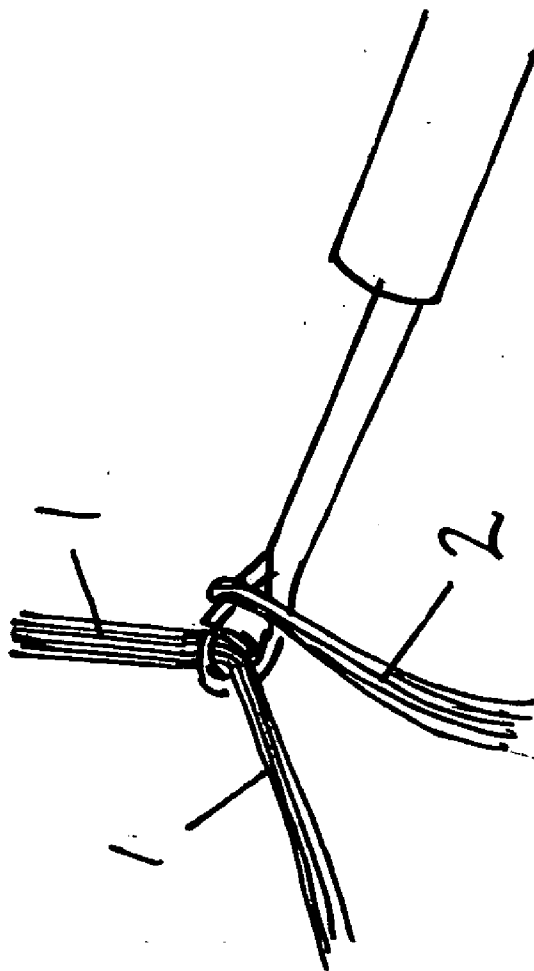
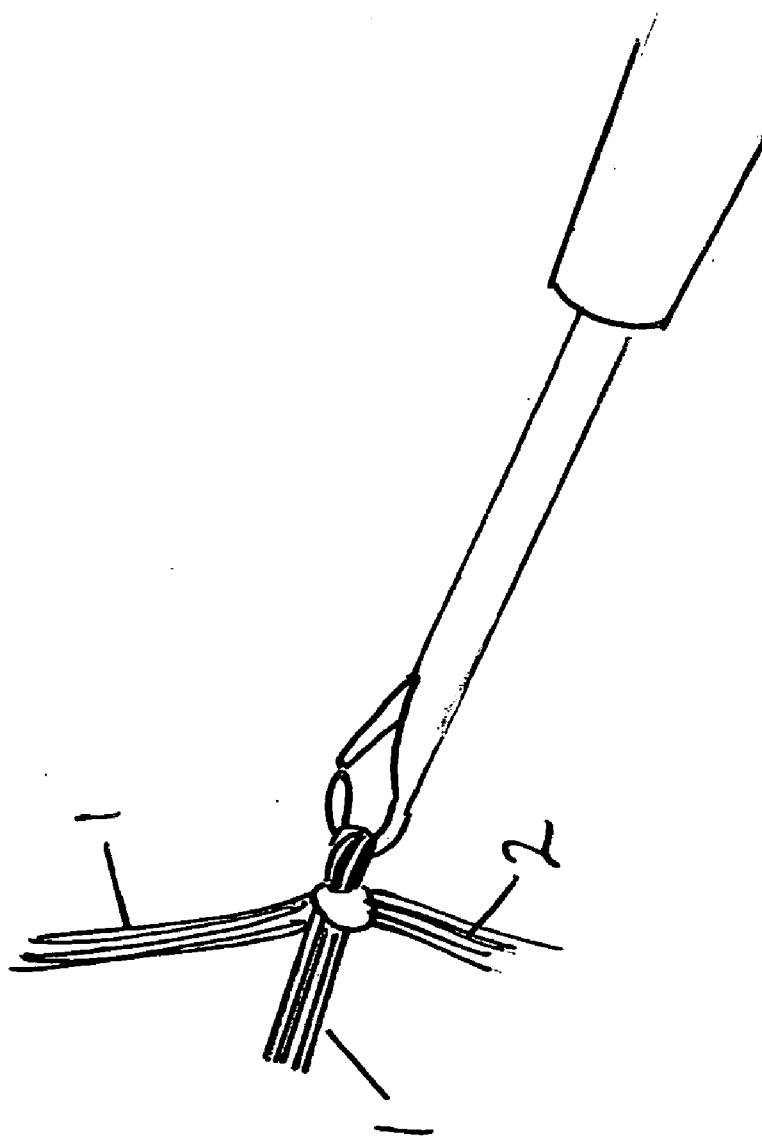


FIG.42



**FIG. 43**

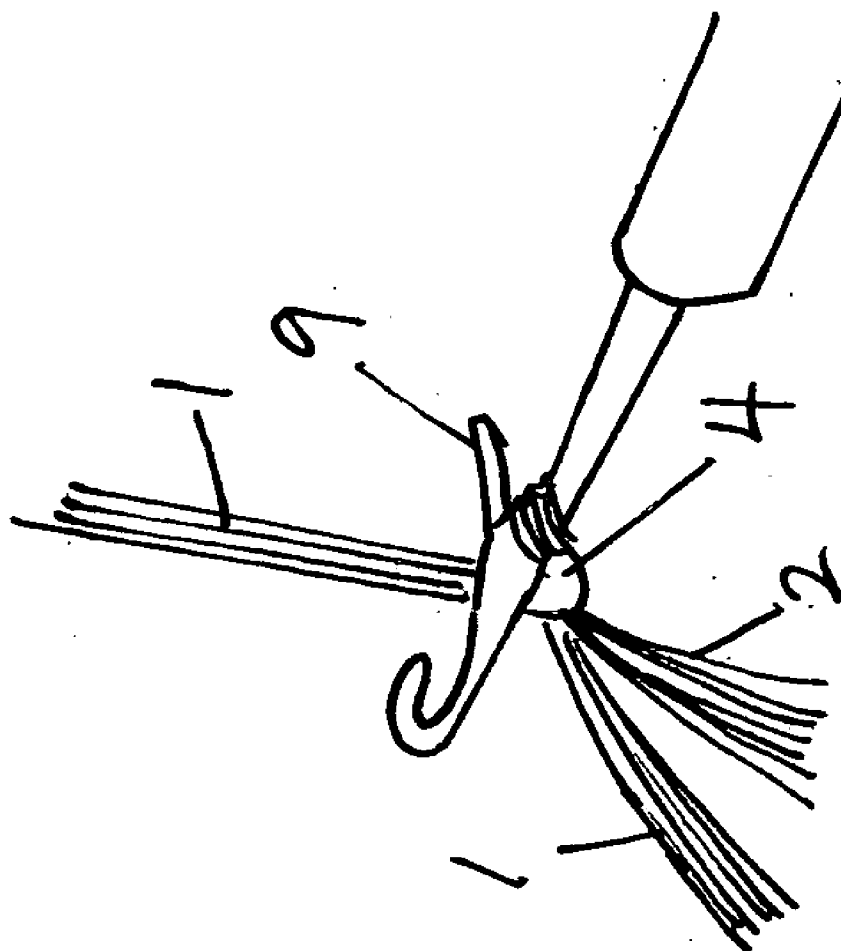
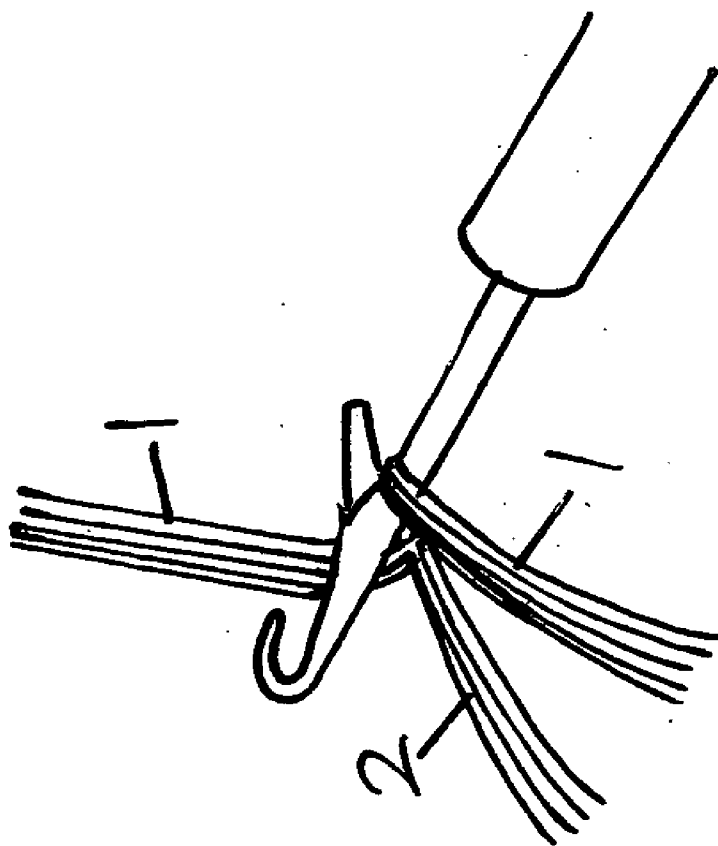


FIG. 44



**FIG. 45**

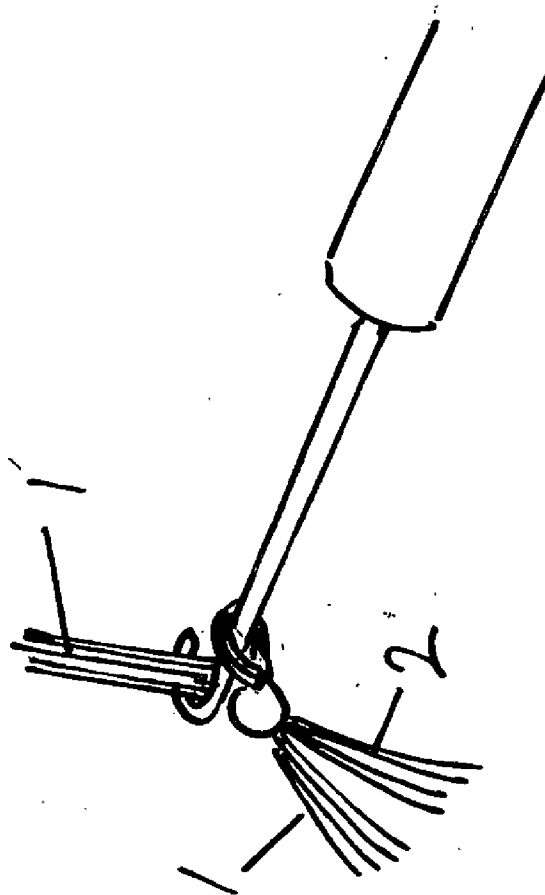
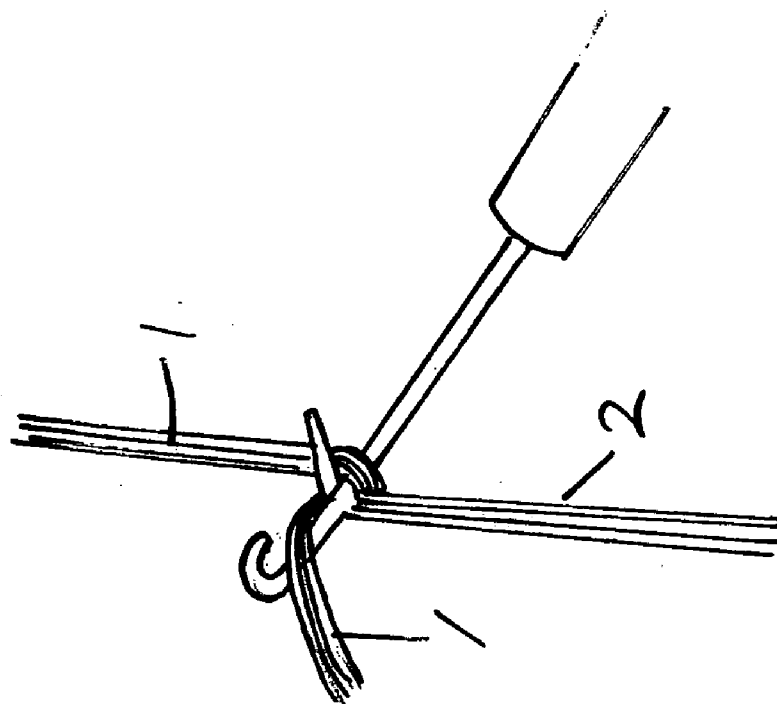


FIG. 46



**FIG. 47**



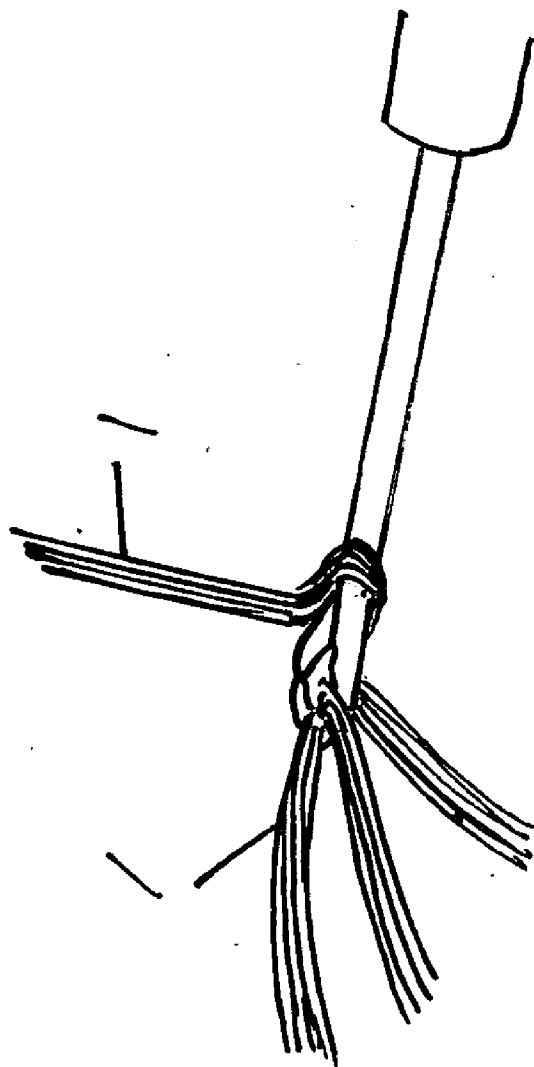


FIG.48

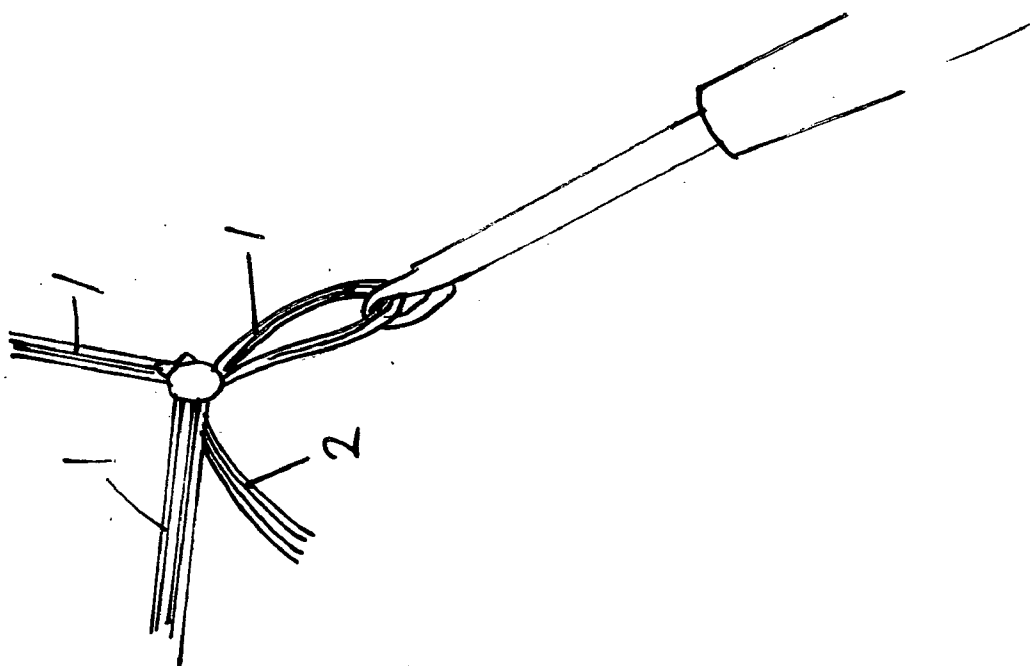


FIG. 49

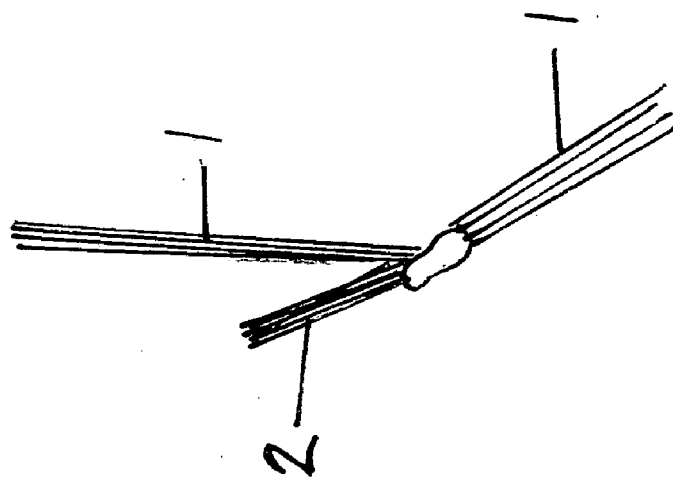
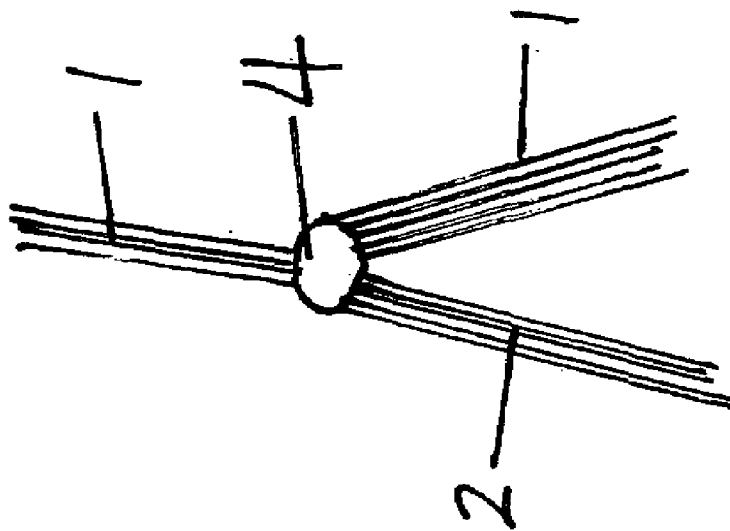


FIG.50

FIG. 51



## EXTENSION HAIR PRODUCTION

### FIELD OF INVENTION

[0001] This invention relates to the field of extension hair attachment. More specifically, the invention comprises a method for attaching hair extensions with simple and affordable thread technique without glue that is virtually undetectable and easy to apply.

[0002] The process is quick and easy with no pulling or stress and no damage to hair. Using only the finest human hair, this invention produces smooth, naturally flowing results within minutes.

### BACKGROUND OF INVENTION

[0003] Many hair salons provide hair extension services. Hair salon customers ask for hair extensions for various reasons, including to lengthen original hair without having to rely on the natural growth of the original hair, to add volume to the original hair, and generally to enhance the overall appearance of the person's hairstyle.

[0004] Today, more and more women and men are opting to add length and thickness to their hairs. Traditionally, this look has been created through processes that involve glues, braids or both.

[0005] This invention does not require heat or chemicals for attachment or strong solvents for removal. Anyone familiar with the hair industry knows what damage that these harsh chemicals can cause.

[0006] Hair extension techniques exist. For example, U.S. Pat. No. 5,121,761 issued to Meister discloses a hair extension method wherein a person's original hairs are gathered into several groups. Each group is retained and separated from the other groups of original hairs using a bead. A hair weft is sewn to the person's original hair, and the beads serve as anchors for the hair weft.

[0007] At least one problem with the technique disclosed in Meister is that the technique subjects the original hairs to substantial stress, as each group of original hairs carries the weight of the hair weft and the bead. The original hairs are being pulled from the scalp by the weights of the bead and the hair weft. Therefore, the original hairs are susceptible to breaking off from the scalp, especially if the original hairs are dry and thin. The person wearing the hair extension may also find it uncomfortable to have original hairs being pulled by the hair extension. A hair extension technique that minimizes the stress on the original hairs is desired.

[0008] Another problem is that the attachment of the hair extension with the Meister technique is susceptible to breaking. A hair brush can be caught in between the person's scalp and the beads. If the hair brush is stuck and the person pulls the hair brush downward, the thread that holds the hair weft to the person's scalp can unravel or loosen and eventually break. Additionally, the original hairs can detach from the scalp thereby weakening further the support for the hair weft.

[0009] Another hair extension method is disclosed in U.S. Pat. No. 5,899,209, which is issued to McDonald. The hair extension method in '209 appears to require the parting and plaiting of the user's hair. Several plaits are formed, and the plaits are inserted through the custom ring assemblies of individual hair extensions. At least one problem with the technique in '209 is that the security of the attachment of the hair extensions appears to rely on the snug fit of the plaits to

the ring assemblies. Frequent hair brushing may loosen the attachment of the hair extensions to their respective plaits.

[0010] The hair extension attached using the McDonald technique may also make it difficult for the person to brush his or her hair because of the plaits. A hair extension technique that minimizes bumps, gaps, and crevices within the lengths of the hairs and prevents hair brushes or combs from being trapped is desired to facilitate smooth hair brushing. Another hair extension method appears to be disclosed in International Publication Number WO 03/013296 A2 of Rebecca Helen Jessup. The Jessup application requires the formation of a plurality of strands around the person's scalp. An elastic band is used to secure each strand. A flexible tie is then looped around the strand between the band the person's scalp. A portion of each strand is woven and platted with artificial strands to extend the length of each strand.

[0011] At least one problem with the technique disclosed in the Jessup application, which is also a problem with the technique in '209, is that both techniques may be time consuming. For instance, '209 requires having to form a number of individual plaits. The Jessup application requires having to form a number of strands, having to loop flexible ties on each strand, and having to weave and plait artificial strands with the natural strands. Thus, a hair extension method that provides secure attachment of the hair extension and that can be implemented with minimal time is desired.

### BRIEF DESCRIPTION

[0012] This invention comprises a method for implanting hair extensions with simple and affordable thread technique without glue that is virtually undetectable and easy to apply.

### BRIEF DESCRIPTION OF THE DRAWINGS

[0013] FIG. 1 to 16 show the hooking processes of the hair extension type A according to this invention.

[0014] FIG. 17 to 34 show the processes of attaching the hair extension type B according to this invention.

[0015] FIG. 35 to 40 show the hooking processes of the hair extension type C according to this invention.

[0016] FIG. 41 to 51 show the attaching processes of the hair extension type D according to this invention.

### DETAILED DESCRIPTION

[0017] The present invention comprises various hair extension methods for implementing without glue. This hair extension method preferably includes the following steps. Our system does not require heat or chemicals for attachment or strong solvents for removal. Anyone familiar with the hair industry knows what damage that these harsh chemicals can cause. The hair extensions look and feel completely natural and are easy to wash and style and also can be colored or permed. Our system is so gentle that it can be used on the most sensitive and difficult areas such as the top area of head. It is as light as feather, you won't even know that you're wearing it.

[0018] This hair extension method can add more length and volume without the discomfort of weaves and glues. It's gentle, light and ultra thin. User can even add hair to the sensitive top area.

[0019] In the following detailed description of the preferred embodiments, the FIGS. show specific embodiments in which the invention may be practiced. It is to be understood

that other embodiments may be utilized and structural changes may be made without departing from the scope of the present invention.

**[0020]** Following is a detailed attachment process of type A. First putting hair piece onto hook. When user gets better, hooking up with five strands or so. Referring to FIG. 1 the preferred embodiment of a extension hair attachment according to this invention, folding in half and placing selected natural hair 1 strand of seven inch length with 40-50 strands. Hooking thread and natural hair onto crochet loop 10 with clasp 9 open in FIG. 2. In FIG. 3, closing clasp 9 by pulling loop 10. Pulling natural hair 1 and thread 8 through the loop 10 on the end of the hair piece (FIG. 4), then pushing it back onto the loop 10 behind the open clasp 9. Holding clasp 9 open with finger 6, this also holds hair and thread 8 in place (FIG. 5).

**[0021]** Taking reasonable length of hair 1 and turning it clockwise back over the loop 10 (FIG. 6). Holding hair 1 and thread 8 with finger 6, while user closes the clasp 9 (FIG. 7). Pulling the hair 1 and thread 8 through the loop 10 (FIG. 8). As user is pulling out the hair 1 and thread 8 completely turn the hook 10 just a little (FIG. 9).

**[0022]** Pulling extension hair 2 piece up and natural hair 1 and string down to tighten. (See FIG. 10).

**[0023]** Placing hair piece between the thread 8 ends (FIG. 11) and strongly tying the thread 8 over the hair piece two or three times to make a knot 4 and making sure to hold the piece and natural hair together in one hand for tension (FIG. 12). Leaving about 0.5 mm of thread 8 and cutting remaining hair 1 with scissor 5 (FIG. 13). When done, the piece and natural hair 1 should lie flat (FIG. 14).

**[0024]** As best shown in FIG. 15-16, in case of removal the extension hair 2, separating natural hair from piece, and then cutting the bottom of thread loop.

**[0025]** Secondly, as an another type of extension hair attachment, type B is as follows. First, placing hair piece onto crochet. Hooking selected hair onto loop 10 with forty to fifty strands when clasp 9 is open (FIG. 17). Closing the clasp 9 with the loop 10 of the piece (FIG. 18) by pulling it over the hook. The natural hair 1 then pulls through the loop 10 (FIG. 19-20). Pushing back onto hook 10 with open clasp 9 and. Holding clasp 9 open with finger. This also holds the piece in place (FIG. 21). Taking reasonable length of natural hair 1 and turning in clockwise around loop 10 (FIG. 22). Once gripping hair the extension hair piece 2 (FIG. 23) closing the clasp (FIG. 24). Pulling natural hair 1 through loop 10 (FIG. 25).

**[0026]** While extension hair 2 through loop 10 slightly rotate loop 10 (FIG. 26). Pulling hair piece up while pulling natural hair 1 down (FIG. 27). Making a small and tightened knot area 4 (FIG. 28). Knotting small drop on the knot 4 with adhesive 5 (FIG. 29). Pushing and inserting the liquid with finger 6 onto knot 4 (FIG. 30). Finishing the extension hair attachment (FIG. 31).

**[0027]** In case of removal the extension hair, separating natural hair from piece. And then cutting the bottom of thread loop with scissor 4 (FIG. 32-34). The knot 4 releases easily.

**[0028]** Thirdly, additional extension hair 2 hooking method, type C, comprises the following methods. Selecting small amounts of natural hair 1 with approximately thirty strands. Placing piece on crochet 7. Pulling down two clear threads for making tightened loop (FIG. 35). Separating the clear thread 8 from the hair and hold in hand not holding hook.

**[0029]** Wrapping around a finger or two for securing. Placing selected natural hair 1 on loop 10 (FIG. 36). Bringing

piece over hook closing clasp 9 and pulling hair through loop 10 (FIG. 37-38). Pushing hair back onto hook 10 behind clasp 9 (FIG. 39). Turning hook 180 degree toward hair at the scalp area and rehooking (FIG. 40). While pulling through, rotating loop back 1/2 degree again and pulling hair through completely. And remaining process is the same as type A's FIG. 10-16.

**[0030]** Fourthly, different extension hair 2 attachment of type D is as follows. Placing selected natural hair 1 on hook (FIG. 41). Moving the hair to the one side (FIG. 42). Bringing piece over hook, closing clasp and pulling hair through loop (FIG. 43). Pushing hair back onto hook 3 behind clasp 9 (FIG. 44). Turning hook 180 degree toward hair at the scalp area and rehooking (FIG. 45). Pulling the hair out through loop 10 (FIG. 46). While pulling through loop, rotating hook 10 back 180 degree again and pulling hair through completely (FIG. 47-51).

**[0031]** In case of special situation, an user utilizes with Q-Tip from the bottle for removing residue exactly. Additional benefit of this invention is strand by strand technique which means strands are fully prepared and ready to use. One strand is placed on a crochet hook, where an experienced technician can place more strands. These works are much faster.

**[0032]** After two to three months the extension will become more loose because the hair grows. The extension hair can be removed by simply cutting the thread. Usually about 40% of the hair can be reused after removing.

**[0033]** There is no heat or harsh chemicals involved in this invention. There is no pulling or stress to the hair. It is much more gentle technique than previous art. This invention offers long, full, beautiful hair with the freedom for life you desire. This hair extensions method can add more length and volume without the discomfort of bumps and messy glues in the hair. Because this method does not use heat or chemicals, the gentle application and quick removal can be achieved.

**[0034]** In this respect, before explaining at least one preferred embodiment of the invention in detail, it is to be understood that the invention is not limited in its application to the details of the construction and to the arrangement of the components set forth in the above description or as illustrated in the drawings. The invention is capable of other embodiments and of being practiced and carried out in various ways. Also, it is to be understood that the phraseology and terminology employed herein are for the purpose of description and should not be regarded as limiting.

**[0035]** In addition, the order in which the steps are presented above is not limited to any particular order or strand such as transparent strand, nylon strand, polyester strand, etc. and does not necessarily imply that they have to be performed in the order presented. It will be understood by those of ordinary skill in the art that the order of these steps can be rearranged and performed in any suitable manner. It will further be understood by those of ordinary skill in the art that some steps may be omitted or added and still fall within the spirit of the invention.

**[0036]** Although the description above contains many specifications, these should not be construed as limiting the scope of the invention but as merely providing illustrations of some of presently preferred embodiments of this invention. For instance, the materials or types used to create the loop and the hair grouping device may vary. And this invention of extension hair attachment covers methods to educate by on-line or off-line, or distribute kits under scope of invention.

What is claimed is:

1. A process for hair extension method comprising the steps of:

putting hair piece onto hook;  
hooking up with reasonable strands;  
folding in half and placing selected natural hair strand;  
hooking thread and natural hair onto crochet;  
pulling loop over the hook;  
pulling hair and thread through the loop;  
pushing it back onto the hook;  
holding clasp open with finger;  
taking reasonable length of hair and turning back over the hook;  
holding hair and thread;  
pulling the hair and thread through the loop;  
pulling hair piece up and natural hair;  
placing hair piece between the thread ends and strongly tying the thread over the hair several times to make a knot.

2. The process recited in claim 1 wherein, said crochet has a opening therethrough whereby a plurality of hairs can be pulled through said crochet.

3. The process recited in claim 1 wherein, the number of existing hairs on a person's head which is pulled through the opening in said crochet is maintained at a minimum.

4. The process recited in claim 1 wherein, said crochet is formed of hard steel with a single hole therethrough.

5. The process recited in claim 1 wherein, a hook is used to pull said existing hair through said crochet.

6. The process recited in claim 1 wherein, said strand of loop is formed of a various materials such as transparent strand, nylon strand, polyester strand etc.

7. The process recited in claim 1 wherein, said kind or thickness of strand can be varied with twofold, threefold fourfold

8. The process recited in claim 1 wherein, said hair kind attached to glue area can be varied with European hair, Russian hair, India hair, Chinese hair, or artificial hair.

9. The process recited in claim 1 wherein, said hair texture attached to glue area can be varied with straight, wavy, yaki or curly hair.

10. A process for hair extension method comprising the steps of:

placing hair piece onto crochet;  
hooking selected hair onto hook;  
closing the clasp with the loop by pulling the hook;  
pushing back onto hook with open clasp;

holding clasp open with finger;  
taking reasonable length of hair and turning around hair;  
twisting hair;  
closing clasp;  
pulling hair through loop; and  
pulling hair piece up while pulling natural hair down.

11. The process recited in claim 10 wherein, said crochet has a opening therethrough whereby a plurality of hairs can be pulled through said crochet.

12. The process recited in claim 10 wherein, the number of existing hairs on a person's head which is pulled through the opening in said crochet is maintained at a minimum.

13. The process recited in claim 10 wherein, said crochet is formed of hard steel with a single hole therethrough.

14. The process recited in claim 10 wherein, a hook is used to pull said existing hair through said crochet.

15. The process recited in claim 10 wherein, said crochet has a opening therethrough and a narrow slit interconnecting at least some of said plurality of openings.

16. The process recited in claim 10 wherein, said loose hairs are joined to said strand by tying.

17. A process for hair extension method comprising the steps of:

selecting small amounts of hair strands;  
placing piece on crochet;  
pulling down several clear threads for making tightened loop separating the thread from the hair and holding hook;  
wrapping around finger for securing;  
placing selected hair on hook;  
bringing piece over hook closing clasp and pulling hair through loop;  
pushing hair back onto hook behind clasp;  
turning and rotating hook and;  
pulling hair through completely.

18. A process for hair extension method comprising the steps of:

placing selected hair;  
moving the hair to the one side;  
bringing piece over hook, closing clasp and pulling hair through loop;  
pushing hair back onto hook behind clasp;  
turning hook and rehooking;  
pulling the hair out through loop;  
rotating hook back; and  
pulling hair

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