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Inventor(s)	Lampert; Jaclynn

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### Supplemental Face Framing Hair Attachment for Circular Hair Extensions

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#### Abstract

The invention is a supplemental face-framing attachment that is attached to a circular hair-extension so as to provide additional hair to areas that hair-extensions omit (e.g. face framing area).

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<b>Inventors:</b>	<b>Lampert; Jaclynn (Lakeville, MN)</b>
<b>Applicant:</b>	<b>Lampert; Jaclynn (Lakeville, MN)</b>
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#### Background/Summary

[0001] This application claims the benefit of provisional patent application No. 63/583,782, filed 2023 Sep. 19.

#### TECHNICAL FIELD

[0002] The present invention relates to Human Necessities/Personal or Domestic Articles, and more particularly to Hair Extensions (Wigs A41G)

#### BACKGROUND OF INVENTION

[0003] Many people deal with thinning hair for a variety of reasons. Commonly, hair plays an outsize role in peoples' perception of appearance. As such, hair thinning and loss can affect peoples' self-esteem leading sometimes to depression, substance abuse, and the like. Historically, many types of wigs and hair extensions have been developed to replace or supplement an individual's existing hair. Traditional wigs require a user to either cover or remove existing hair, and hair extensions often require attachment methods such as clips, glue, or ties that cause further damage to already delicate hair.

[0004] To combat damage caused by attachment methods, several circular extension devices have been proposed. Some conventional devices utilize a discrete filament base that encircles the head. When combined with natural hair these hair additions stay in place without the need for damaging glue, clips or ties. Although these devices discretely and gently add additional hair to a user's head, the design limits the amount of hair that can be added. Some users require more hair on the sides and back of the head to achieve more dramatic styles and volume.

#### BRIEF DESCRIPTION OF INVENTION

[0005] One embodiment of the invention is an open-ended filament to which supplemental hair is attached. Supplemental hair may be human hair or synthetic fiber strands. The filament can be tied at each end to a circular hair extension operative to fit on a user's head, under existing hair, adding a higher density of hair to an area of thinning hair, for example. In another embodiment of the invention, one or more stopper fixtures are slid onto the filament and can be moved along the filament to adjust the beginnings and ends of an attached hair portion. In another embodiment, the filament has attachment hook fixtures on each end which can be attached to the circular hair extension in lieu of tying loose ends to that structure. Another embodiment comprises a joiner fixture operative to allow separate filaments and their attached hair strands to be combined in parallel to one another, and attached in combination to the circular hair extension. This enables a blending of high and lower density supplemental hair to be comingled. By virtue of the filaments, stoppers, hooks and joiners, one is able to customize the hair density and placement before fitting the circular hair extension to one's head. This ability to customize on the fly is novel to such hair extension systems.

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## Description

#### BRIEF DESCRIPTION OF DRAWINGS

[0006] FIG. 1 shows a first embodiment of the invention.

[0007] FIG. 2 shows a second embodiment of the invention.

[0008] FIG. 3 shows the embodiment of FIG. 2 to be tied to a circular hair extension.

[0009] FIG. 4 shows the result of tying the embodiment of FIG. 2 to a circular hair extension.

[0010] FIG. 5 shows a stopper fixture.

[0011] FIG. 6 shows the stopper fixture of FIG. 5 with a filament inserted through it.

[0012] FIG. 7 shows a third embodiment of the invention.

[0013] FIG. 8 shows the embodiment of FIG. 7 attached to a circular hair extension.

[0014] FIG. 9 shows an exemplary view of a circular hair extension, attached to an embodiment of the invention, and in place on a user's head.

[0015] FIG. 10 shows another embodiment of the invention including a joiner fixture.

[0016] FIG. 11 shows two filaments, with the attached hair comingled, by using the joiner fixture.

[0017] FIG. 12 shows the two-filament/circular hair extension of FIG. 11 in an exemplary view.

#### DETAILED DESCRIPTION OF INVENTION

[0018] The invention is an open-ended filament to which supplemental hair is attached.

Supplemental hair may be human hair or synthetic fiber strands. One of more filaments can then be attached to a circular hair extension. In other implementations of such a system, the circular hair

extension is custom made, and once completed, the arrangement and texture of the supplemental hair is essentially fixed. This invention allows perpetual customization.

[0019] The filament is operative to attach to a circular hair extension so that its position can be adjusted, thus making it perpetually customizable. That is, a filament with its supplemental hair strands can be repositioned to different portions of the circular head extension.

[0020] Furthermore, an embodiment of the invention permits two different filaments and their attached hair strands to be joined, parallel to one another, so that the hair strands are comingled. The combination can then also be repositioned, as needed.

[0021] In FIG. 1, the filament (**101**) has the supplemental hair strands (**102**) attached to it as shown. With the loose ends of the filament, it can be tied to a circular hair extension, then it can be positioned along the extension's circumference.

[0022] In FIG. 2, stopper fixtures (**201**), permit the attached hair strands to be adjusted in beginning and end positions by sliding the stopper, akin to sliding the vertical elements of a vertical blind.

[0023] In FIG. 3, the filament of FIG. 2 is to be tied to a circular hair extension at points **302**, and **304**, using the filament ends **301** and **303**, respectively.

[0024] In FIG. 4, once tied to the circular hair extension, the filament can be repositioned, and the beginning and end of the supplemental hair portion can be more compressed by using the stopper fixture.

[0025] FIG. 5 shows the stopper fixture as a tubular structure (**501**) with an axial shaft (**502**) extending to both ends of the tube.

[0026] FIG. 6 shows the stopper fixture of FIG. 5 with a filament threaded through its axial shaft.

[0027] FIG. 7 shows a second embodiment of the invention where instead of loose ends, the filament's ends are terminated in two hook fixtures (**701** and **702**).

[0028] FIG. 8 shows the embodiment of FIG. 7 attached to a circular hair extension.

[0029] In FIG. 9, a circular hair extension (**305**) with a filament attached to it, adds supplemental hair (**901**) to the user's head. Note that the circular hair extension is put in place then the existing hair is positioned to cover it, hence, the dotted line.

[0030] In FIG. 10, a joiner fixture (**1001**) is shown joining two separate filaments (**1001** and **1003**).

[0031] FIG. 11 shows the resulting combination of filaments where the hair strands (of each) are essentially comingled.

[0032] FIG. 12 shows the embodiment of FIG. 11. A circular hair extension has the joined filaments attached to it. The low density hair strands of filament are essentially comingled with the higher density hair strands of filament.

[0033] In all embodiments, the filament is flexible and may be opaque, translucent or transparent. Additionally, it may be colorless or colored with no limitation as to color. The filament length may vary. The width of the filaments may vary within a range of 0.1 mm to 0.5 mm.

[0034] The stopper fixture is flexible and may be opaque, translucent or transparent. The width of a stopper fixture may vary within a range of 1 mm and 3 mm.

[0035] The joiner fixture is flexible and may be opaque, translucent or transparent. The width of the joiner fixtures vary within a range of 1 mm to 5 mm.

## Claims

1. A supplemental face-framing hair attachment for circular hair extensions comprising: a filament; a plurality of supplemental hair strands; and at least one stopper fixture.
2. A claim as in claim 1 wherein: the filament has loose ends; and the plurality of supplemental hair strands are individually affixed to the filament.
3. A claim as in claim 1 wherein: the at least one stopper fixture is a tubular shaped, flexible, solid fixture having an axial shaft down its center extending from one end to the opposite end.
4. A claim as in claim 1 wherein: the filament has hook attachment fixtures on each of its two ends.

5. A supplemental face-framing hair attachment for circular hair extensions comprising: the filament; the plurality of supplemental hair strands; the at least one stopper fixture; and at least one joiner fixture.
6. A claim as in claim 5 wherein: the filament has loose ends; and the plurality of supplemental hair strands are individually affixed to the filament.
7. A claim as in claim 5 wherein: the at least one stopper is a tubular shaped, flexible, solid fixture having an axial shaft down its center extending from one end to the opposite end.
8. A claim as in claim 5 wherein: the filament has hook attachment fixtures on each of its two ends.
9. A claim as in claim 5 wherein: the at least one joiner fixture is a tubular shaped, flexible, solid fixture having two, parallel, axial shafts extending from one end to the opposite end.
10. A claim as in claim 1 wherein: the filament is flexible and has a width in the range of 0.1 to 0.5 mm.
11. A claim as in claim 5 wherein: the filament is flexible and has a width in the range of 0.1 to 0.5 mm.
12. A claim as in claim 1 wherein: the stopper fixture is flexible and has a width in the range of 1.0 to 3.0 mm.
13. A claim as in claim 5 wherein: the stopper fixture is flexible and has a width in the range of 1.0 to 3.0 mm.
15. A claim as in claim 5 wherein: the joiner fixture is flexible and has a width of 1.0 to 5.0 mm.
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