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(54) Titre : CONSTRUCTION DE BASE POUR UN DISPOSITIF ADHESIF SERVANT A FIXER DE FAUX CILS A UNE PAUPIERE
(54) Title: CORE CONSTRUCTION FOR AN ADHESIVE DEVICE FOR ATTACHING A FALSE EYELASH TO AN EYELID

(57) Abrégé/Abstract:

An adhesive device is disclosed for attaching a false eyelash to an eyelid when a prior adhesive device has lost its adhesivity. The adhesive device is detachable from the false eyelash and the eyelid. The adhesive device comprises an elongated core and a pressure sensitive adhesive coating surrounding the core. The adhesive coating is for attaching the core along the false eyelash and for also allowing the false eyelash to be attached to the eyelid. The core comprises a plurality of synthetic fibers laid side by side and parallel with respect to their longitudinal axes so as to assure that the plurality of synthetic fibers lay right on the eyelid. Each synthetic fiber is resistant to absorption of the adhesive coating so as to remain soft and pliable.

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Canadian Patent No. 2,347,358
Granted: April 13, 2010

Les corrections suivantes sont faites en
raison de l'article 8 de la *Loi sur les
brevets* et le document doit être lu tel
que corrigé.

The following corrections are made
pursuant to section 8 of the *Patent Act*
and the document should read as
corrected.

In the Patent Grant:

1. In the Drawings, the page containing Figures 9 to 15, omitted from the Letters Patent, has been restored.

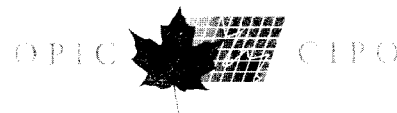
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ABSTRACT

An adhesive device is disclosed for attaching a false eyelash to an eyelid when a prior adhesive device has lost its adhesivity. The adhesive device is detachable from the false eyelash and the eyelid. The adhesive device comprises an elongated core and a pressure sensitive adhesive coating surrounding the core. The adhesive coating is for attaching the core along the false eyelash and for also allowing the false eyelash to be attached to the eyelid. The core comprises a plurality of synthetic fibers laid side by side and parallel with respect to their longitudinal axes so as to assure that the plurality of synthetic fibers lay right on the eyelid. Each synthetic fiber is resistant to absorption of the adhesive coating so as to remain soft and pliable.

**CORE CONSTRUCTION FOR AN ADHESIVE DEVICE FOR ATTACHING
A FALSE EYELASH TO AN EYELID**

BACKGROUND OF THE INVENTION

Field of the Invention:

5 The present invention relates to a core for an adhesive device for attaching a false eyelash to an eyelid. More particularly, the present invention relates to an improved core for an adhesive device for attaching a false eyelash to an eyelid.

10

Description of the Prior Art:

Numerous innovations for false eyelashes have been provided in the prior art. Even though these innovations may be suitable for the specific individual purposes to which they address, however, they differ from the present invention. Furthermore, even though these innovations may be suitable for the specific individual purposes to which they address, however, they would not be suitable for the purposes of the present invention as heretofore described.

15 A first example, U.S. Patent No. 2,835,259 to Goodman teaches an integral one-piece artificial eyelash unit, formed by slitting and slotting a thin sheet of material with an adhesive border at one side and outwardly projecting eyelash colored thin narrow flat rectangular cross section strips at the other side, said strips and said border being integrally joined and being formed from the same thin sheet of material without separation of the strips and the border.

20 A second example, U.S. Patent No. 3,266,500 to Weld teaches a device for application to the upper eyelid of a person: a curved elongate base sheet of flexible and conformable material having one end extending downwardly and the other end extending in a different direction from

said one end, said base sheet providing an outline to extend along and substantially cover the upper eyelid; a pressure sensitive adhesive coating on the back surface of said sheet adapted to removably adhere said sheet to the upper eyelid; said base sheet having a layer of a desired visible color on its front surface, said color being noticeably different from the color of the eyelid.

A third example, U.S. Patent No. 3,362,417 to Glaser teaches an article for attachment to the human eyelid for adornment of the human eye comprising a portion of a feather, exclusive of the shaft thereof, said portion having a length sufficient to enable it to be attached to a human eyelid and to substantially overlies the eyelashes of the eyelid, said portion consisting essentially of a plurality of naturally arranged and integrated feather barbs, said barbs being anchored at a point along their length to a narrow, thin, common, flexible support base formed from a rubbery material and having a length substantially greater than that of the natural eyelashes of the eyelid and a configuration to enable them to substantially mask the natural eyelashes of the eyelid, said common base being capable of conforming to the contours of the eye in any position of the eyelid and serving to carry an adhesive material for attaching the article to the eyelid and having a length sufficient to enable the article to be attached to a human eyelid.

A fourth example, U.S. Patent No. 3,447,542 to McCullough teaches a combination eyeliner and false eyelash comprising an elongated flexible leather eyeliner having an inner and outer surface of a thickness between 5 to 40 thousandths of an inch; and a false eyelash permanently and flexibly bonded to the inner surface of said eyeliner with the lashes substantially perpendicular

to the eyeliner length.

A fifth example, U.S. Patent No. 3,622,438 to Esler et al teaches a thermoplastic adhesive coated yarn or filament employed in the manufacture of boxing for upholstery and the like. The yarn or filament contains a uniform coating of a thermoplastic material which has sufficiently high viscosity to prevent the thermoplastic material from bleeding through the fabric to which it adheres at ordinary temperatures, and with viscosity low enough to permit coating of the filament or yarn uniformly at coating temperatures and such that a sufficient degree of melting will take place at the application temperature for the sticking of the thermoplastic adhesive to the boxing fabric. In a preferred embodiment of the invention, a rayon filament is coated with a layer of a polymer or ethylene, preferably an ethylene-butene-1 copolymer, the copolymer has a molecular weight of less than 10,000, has dissolved therein an organic acid ester which produces a composition having a viscosity at 300 degrees of 100,000 to 200,000 c.p.s., and a viscosity at 350 degrees of less than 8,500 c.p.s. The preferred organic acid ester is ethyl palmitate.

A sixth example, U.S. Patent No. 3,885,671 to Spiegel et al teaches a carded package including an article disposed within a heat shrinkable tubing. The tubing is connected to the card via an adhesive thereon. The securement of the adhesive to the card is enhanced by providing plural perforations in the surface of the card and applying the adhesive to the card at the perforated area.

A seventh example, U.S. Patent No. 6,029,674 to Han teaches a device for attaching a false eyelash with an original adhesive thereon to an eyelid when the original

adhesive thereon has lost its adhesivity. The device includes a core and an adhesive coating that surrounds the core so as to form an attaching element. The adhesive coating attaches the core along the false eyelash and also
5 allows the false eyelash to then be attached to the eyelid. The device further includes, a primary substrate, a secondary substrate disposed on the primary substrate and has a plurality of the attaching elements spaced longitudinally therealong and held releasably thereon by
10 the adhesive coating of each attaching element, a plurality of release sheet covers, each of which covers and protects an associated attaching element, prior to use, and is held releasably thereon by the adhesive coating of the associated attaching element, and at least
15 one pair of false eyelashes disposed on the primary substrate.

A more detailed description of U.S. Patent No. 6,029,674 to Han, of which the instant invention is an improvement of, can best be seen in Figures 1-8, and as
20 such, will be discussed with reference thereto.

Referring now to Figure 1, the device for attaching a false eyelash when the original adhesive thereon has lost its adhesivity is shown generally at 10 for attaching a false eyelash 12 with an original adhesivity thereon to an eyelid 14 when the original adhesive thereon has lost its
25 adhesivity.

The configuration of the device for attaching a false eyelash when the original adhesive thereon has lost its adhesivity 10 can best be seen in Figures 2-8, and as
30 such, will be discussed with reference thereto.

The device for attaching a false eyelash when the original adhesive thereon has lost its adhesivity 10 comprises a core 16 and an adhesive coating 18 surrounding

the core 16 so as to form an attaching element 19.

The adhesive coating 18 is for attaching the core 16 along the false eyelash 12 and for also allowing the false eyelash 12 to then be attached to the eyelid 14.

The core 16 is elongated and slender, and is preferably a thread or a monofilament.

The adhesive coating 18 is pressure sensitive.

The device for attaching a false eyelash when the original adhesive thereon has lost its adhesivity 10 further comprises a primary substrate 22 that is a card and has a face 24 with an upper area 26 and a lower area 28.

The upper area 26 of the primary substrate 22 has a display throughbore 29 therethrough for a hanging display.

The device for attaching a false eyelash when the original adhesive thereon has lost its adhesivity 10 further comprises a secondary substrate 30 that is a card and disposed on the upper area 16 of the primary substrate 22, below the display throughbore 29 therethrough so as not to interfere with hanging.

The secondary substrate 30 has a plurality of the attaching elements 19 spaced longitudinally therealong and held releasably thereon by the adhesive coating 18 of each associated attaching element 19.

The device for attaching a false eyelash when the original adhesive thereon has lost its adhesivity 10 further comprises a plurality of release sheet covers 32 that are individual and separate from each other.

Each release sheet cover 32 covers and protects an associated attaching element 19, prior to use, and is held releasably thereon by the adhesive coating 18 of the associated attaching element 19.

The device for attaching a false eyelash when the

original adhesive thereon has lost its adhesivity 10 further comprises at least one pair of the false eyelash 12 that are disposed on the lower area 28 of the primary substrate 22.

It is apparent that numerous innovations for false eyelashes have been provided in the prior art that are adapted to be used. Furthermore, even though these innovations may be suitable for the specific individual purposes to which they address, however, they would not be suitable for the purposes of the present invention as heretofore described.

SUMMARY OF THE INVENTION

Accordingly, an object of the present invention is to provide an improved core for an adhesive device for attaching a false eyelash to an eyelid that avoids the disadvantages of the prior art.

Another object of the present invention is to provide an improved core for an adhesive device for attaching a false eyelash to an eyelid that is simple and inexpensive to manufacture.

Still another object of the present invention is to provide an improved core for an adhesive device for attaching a false eyelash to an eyelid that is simple to use.

In accordance with an embodiment of the present invention there is provided an adhesive device for attaching a false eyelash to an eyelid when a prior adhesive device has lost its adhesivity, the adhesive device being detachable from the false eyelash and the eyelid, the adhesive device comprising an elongated core and a pressure sensitive adhesive coating surrounding the core, wherein the adhesive coating is for attaching the

core along the false eyelash and for also allowing the false eyelash to be attached to the eyelid, characterised in that the core comprises a plurality of synthetic fibers laid side by side and parallel with respect to their

5 longitudinal axis so as to assure that the plurality of synthetic fibers lay right on the eyelid wherein each synthetic fiber is resistant against absorption of the adhesive coating so as to remain soft and pliable.

Briefly stated, the present invention, in preferred
10 embodiments, provides an improved core for an adhesive device for attaching a false eyelash to an eyelid. The adhesive device is of a type that has a core, an adhesive coating that surrounds the core so as to form an attaching element, a primary substrate that is a card and has a face
15 with an upper area that has a display throughbore therethrough for a hanging display and a lower area, a secondary substrate that is disposed on the upper area of the primary substrate, below the display throughbore therethrough so as to not to interfere with hanging, and a
20 plurality of release sheet covers that are individual and separate from each other. The improvement includes the core being a plurality of synthetic fibers laid side by side and not twisted, braided, interwoven, intertwined, entwined, or interlaced with each other so as to assure
25 that the plurality of synthetic fibers lay right, and are comfortable, on the eyelid. Each synthetic fiber is thin, smooth, and does not absorb the adhesive coating so as to remain soft and pliable, as compared to a thread or a monofilament which is thick, not smooth, and does absorb
30 the adhesive coating so as not to remain soft and pliable.

The novel features which are considered characteristic of the present invention are set forth in

the appended claims. The invention itself, however, both as to its construction and its method of operation, together with additional objects and advantages thereof, will be best understood from the following description of the specific embodiments when read and understood in connection with the accompanying drawing.

BRIEF DESCRIPTION OF THE DRAWING

The Figures of the drawing are briefly described as follows:

Figure 1 is a diagrammatic perspective view of the present invention in use;

Figure 2 is an enlarged diagrammatic perspective view of the area generally enclosed by the dotted curve identified by arrow 2 in Figure 1;

Figure 3 is an enlarged diagrammatic cross sectional view taken on line 3-3 in Figure 2;

Figure 4 is an enlarged diagrammatic perspective view of the area generally enclosed by the dotted curve identified by arrow 3 in Figure 2 of the present invention;

Figure 5 is a diagrammatic perspective view of a false eyelash kit utilizing the present invention;

Figure 6 is an enlarged diagrammatic perspective view of the area generally enclosed by the dotted curve identified by arrow 6 in Figure 5;

Figure 7 is a diagrammatic cross sectional view taken on line 7-7 in Figure 6;

Figure 8 is an enlarged diagrammatic cross sectional view of the area generally enclosed by the dotted curve identified by arrow 8 in Figure 7;

Figure 9 is a diagrammatic side elevational view of

the improvement made by the present invention to the core shown in Figure 4;

Figure 10 is a diagrammatic side elevational view of a core not made by the present invention;

5 Figure 11 is a diagrammatic end view of a first embodiment of the present invention;

Figure 12 is a diagrammatic end view of a second embodiment of the present invention;

10 Figure 13 is a diagrammatic end view of a third embodiment of the present invention;

Figure 14 is a diagrammatic end view of a fourth embodiment of the present invention; and

Figure 15 is a diagrammatic end view of a fifth embodiment of the present invention.

15

LIST OF REFERENCE NUMERALS UTILIZED IN THE DRAWING

Prior Art

10	device for attaching a false eyelash when the
20	original adhesive thereon has lost its adhesivity
12	false eyelash
14	eyelid
16	core
18	adhesive coating for attaching core 16 along false
25	eyelash 12 and allowing false eyelash 12 to be
	attached to eyelid 14
19	attaching element
22	primary substrate
24	face of primary substrate 22
30	26 upper area of face 24 of primary substrate 22
28	lower area of face 24 of primary substrate 22

29 display throughbore through upper area 26 of face 24
 of primary substrate 22 for hanging display
 30 secondary substrate
 5 32 plurality of release sheet covers

Present Invention

40 improved core for an adhesive device for attaching a
 10 false eyelash to an eyelid of present invention
 42 plurality of synthetic fibers

First Embodiment

15 120 improved core
 122 three synthetic fibers

Second Embodiment

20 220 improved core
 222 three synthetic fibers
 224 plane

Third Embodiment

25
 320 improved core
 322 five synthetic fibers
 324 central synthetic fiber of five synthetic fibers 322
 326 four other synthetic fibers of five synthetic fibers
 30 322

Fourth Embodiment

420 improved core
422 five synthetic fibers
424 pair of parallel planes

Fifth Embodiment

520 improved core
522 seven synthetic fibers
524 central synthetic fiber of seven synthetic fibers 522
526 six other synthetic fibers of seven synthetic fibers
522

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring now to the figures, in which like numerals indicate like parts, and particularly to figures 9 and 10, the improved core for an adhesive device for attaching a false eyelash to an eyelid of the present invention is shown generally at 40.

The improvement comprises a plurality of synthetic fibers 42 laid side by side (see figure 9) and not twisted, braided, interwoven, intertwined, entwined, or interlaced with each other (see figure 10) so as to assure that the plurality of synthetic fibers 41 lay right, and are comfortable, on the eyelid.

Each synthetic fiber 42 is thin, smooth, and does not absorb the adhesive coating 18 (prior art) so as to remain soft and pliable, as compared to the thread 16 (prior art) or the monofilament 16 (prior art) which is thick, not smooth, and does absorb the adhesive coating 18 (prior art) so as not to remain soft and pliable.

A typical synthetic fiber 42 is sold under the

trademark "MODLON-21" (R), Model DKP-550 by the JP CORPORATION of C.P.O. Box 6482, Seoul, Korea; Tel. 82-2-938-7782; Fax. 82-2-938-4540 or under the name "TOYOKALON" by TOYO CHEMICAL CO., LTD. of Tokyo, Japan.

5 The improvement further comprises each of the plurality of synthetic fibers 42 has a thickness in a range of approximately 45 denier to approximately 70 denier.

As shown throughout the figures, the improvement
10 further comprises the plurality of synthetic fibers 42 being an odd number of synthetic fibers.

A first embodiment of the improved core 120 can best be seen in figure 11, and as such, will be discussed with reference thereto.

15 The improvement further comprises the plurality of synthetic fibers 41 being three synthetic fibers 122 that do not lie in a plane, wherein each of the three synthetic fibers 122 touch the two other synthetic fibers.

A second embodiment of the improved core 220 can best
20 be seen in figure 12, and as such, will be discussed with reference thereto.

The improvement further comprises the plurality of synthetic fibers 42 being three synthetic fibers 222 that lie in a plane 224.

25 A third embodiment of the improved core 320 can best be seen in figure 13, and as such, will be discussed with reference thereto.

The improvement further comprises the plurality of synthetic fibers 42 being five synthetic fibers 322 that
30 do not lie in a plane, and comprise a central synthetic fiber 324 surrounded by the four other synthetic fibers 326.

A fourth embodiment of the improved core 420 can best be seen in Figure 14, and as such, will be discussed with reference thereto.

5 The improvement further comprises the plurality of synthetic fibers 42 being five synthetic fibers 422 that lie in a pair of parallel planes 424.

A fifth embodiment of the improved core 520 can best be seen in figure 15, and as such, will be discussed with reference thereto.

10 The improvement further comprises the plurality of synthetic fibers 42 being seven synthetic fibers 522 that do not lie in a plane, and comprise a central synthetic fiber 524 surrounded by the six other synthetic fibers 526.

15 It will be understood that each of the elements described above, or two or more together, may also find a useful application in other types of constructions differing from the types described above.

While the invention has been illustrated and
20 described as embodied in an improved core for an adhesive device for attaching a false eyelash to an eyelid, however, it is not limited to the details shown, since it will be understood that various omissions, modifications, substitutions and changes in the forms and details of the
25 device illustrated and its operation can be made by those skilled in the art without departing in any way from the spirit of the present invention.

Without further analysis, the foregoing will so fully reveal the gist of the present invention that others can,
30 by applying current knowledge, readily adapt it for various applications without omitting features that, from the standpoint of prior art, fairly constitute

characteristics of the generic or specific aspects of this invention.

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CLAIMS:

1. An adhesive device for attaching a false eyelash to an eyelid when a prior adhesive device has lost its adhesivity, the adhesive device being detachable from the false eyelash and the eyelid, the adhesive device comprising an elongated core and a pressure sensitive adhesive coating surrounding the core, wherein the adhesive coating is for attaching the core along the false eyelash and for also allowing the false eyelash to be attached to the eyelid, characterised in that the core comprises a plurality of synthetic fibers laid side by side and parallel with respect to their longitudinal axis so as to assure that said plurality of synthetic fibers lay right on the eyelid wherein each synthetic fiber is resistant against absorption of the adhesive coating so as to remain soft and pliable.

2. The device as defined in claim 1, wherein each of said plurality of synthetic fibers has a thickness in a range of approximately 0.005 g/m, or 45 denier, to approximately 0.0077 g/m, or 70 denier.

3. The device as defined in claim 1, wherein said plurality of synthetic fibers are an odd number of synthetic fibers.

4. The device as defined in claim 1, wherein said plurality of synthetic fibers are three synthetic fibers.

5. The device as defined in claim 4, wherein the longitudinal axes of said three synthetic fibers lie in a triangular disposition.

6. The device as defined in claim 4, wherein each of said three synthetic fibers touch the two other synthetic fibers.

7. The device as defined in claim 4, wherein said three synthetic fibers lie in a plane.

8. The device as defined in claim 1, wherein said plurality of synthetic fibers are five synthetic fibers.

9. The device as defined in claim 8, wherein the longitudinal axes of said five synthetic fibers lie in polygonal disposition.

10. The device as defined in claim 9, wherein one of said five synthetic fibers represents a central synthetic fiber surrounded by the four other synthetic fibers.

11. The device as defined in claim 8, wherein said five synthetic fibers lie in a pair of parallel planes.

12. The device as defined in claim 1, wherein said plurality of synthetic fibers are seven synthetic fibers.

13. The device as defined in claim 12, wherein the longitudinal axes of said seven synthetic fibers lie in a polygonal disposition.

14. The device as defined in claim 12, wherein one of said seven synthetic fibers represents a central synthetic fiber surrounded by the six other synthetic fibers.

FIG. 5
(PRIOR ART)

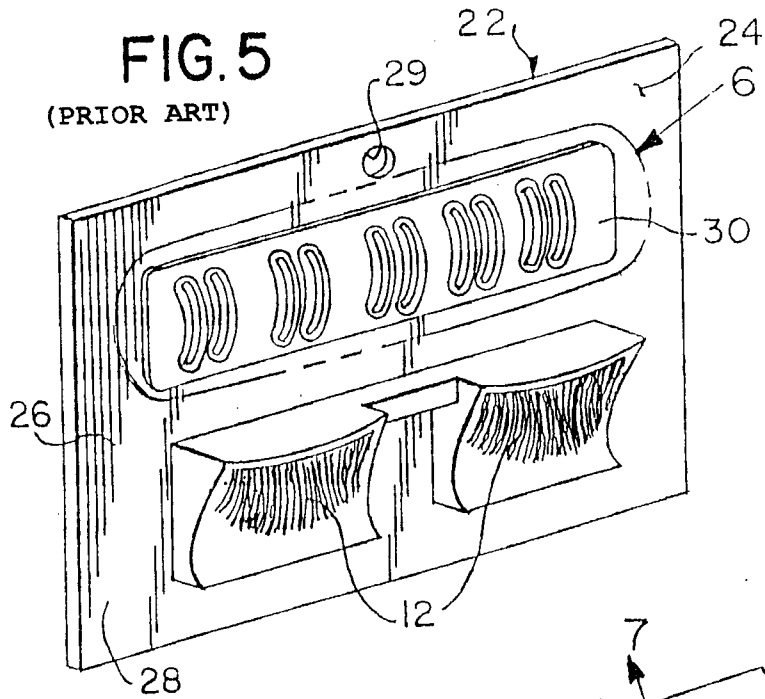


FIG. 4 (PRIOR ART)

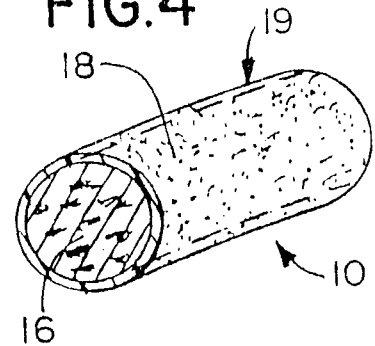


FIG. 6
(PRIOR ART)

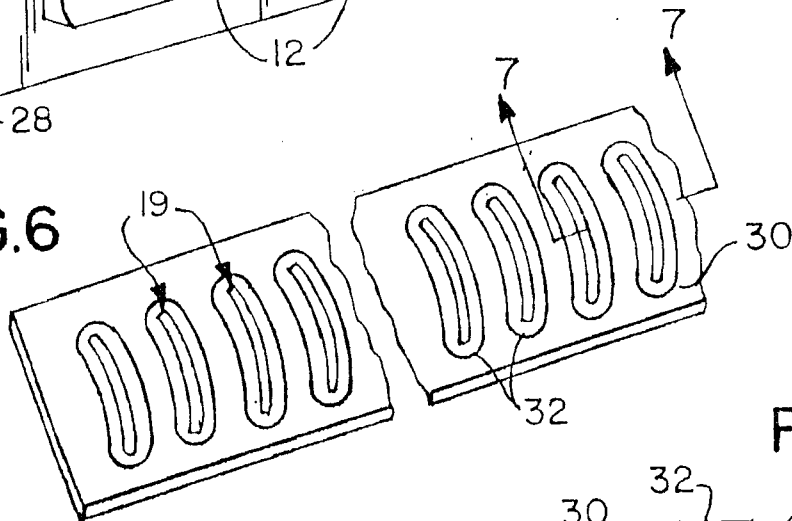


FIG. 7 (PRIOR ART)

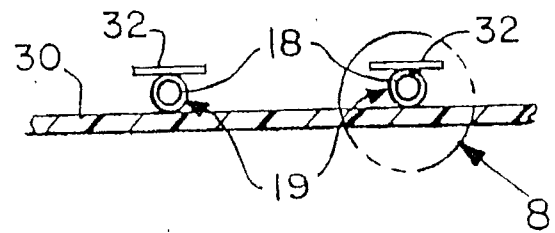


FIG. 8
(PRIOR ART)

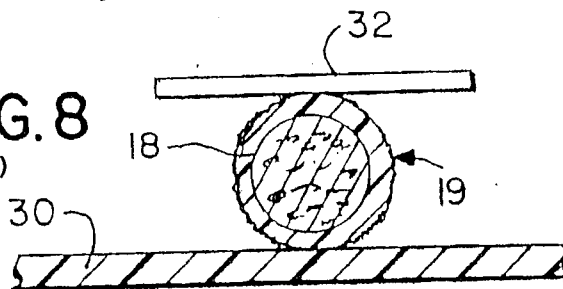


FIG. 1 (PRIOR ART)

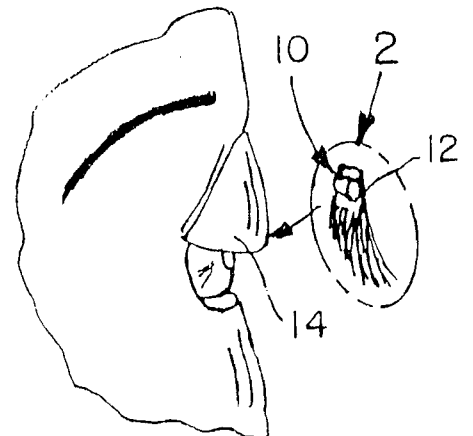


FIG. 2
(PRIOR ART)

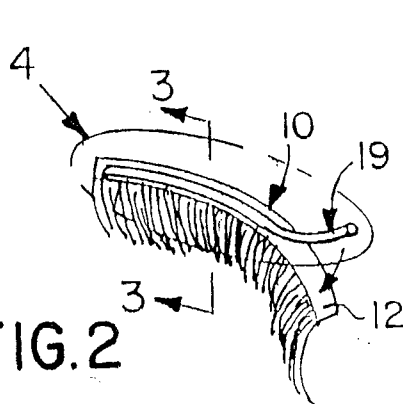
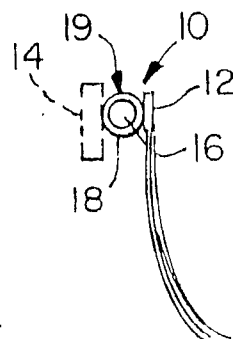


FIG. 3
(PRIOR ART)



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FIG. 11

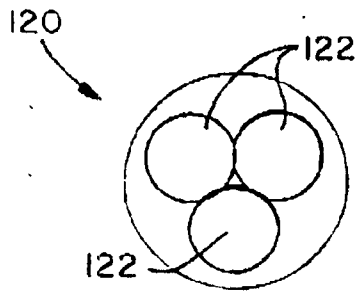


FIG. 12

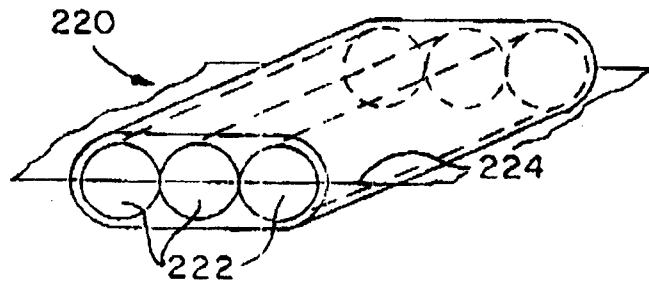


FIG. 13

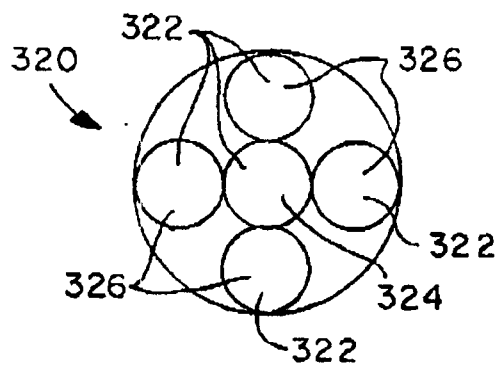


FIG. 14

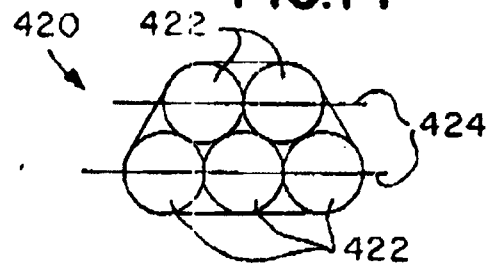


FIG. 15

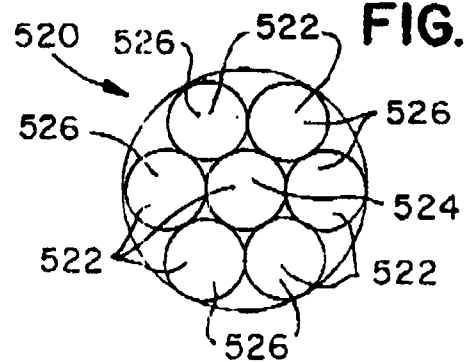


FIG. 9



FIG. 10

