

IMPROVED ADHESIVE CORE FOR ATTACHING FALSE EYELASHES

BACKGROUND OF THE INVENTIONField 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, 15 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.

A FIRST EXAMPLE, U.S. Patent No. 2,835,259 to Goodman 20 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 25 formed from the same thin sheet of material without separation of the strips and the border.

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 30 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.

5 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 overlie
10 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
15 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
20 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
25 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.
30 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
35 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 and 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 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 releasibly thereon by 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 releasibly thereon by the adhesive coating of the associated attaching element, and at least 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 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 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 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 mono-filament.

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 26 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 releasibly 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
5 releasibly 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
10 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,
15 they would not be suitable for the purposes of the present invention as heretofore described.

SUMMARY OF THE INVENTION

5 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.

10 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.

 BRIEFLY STATED, YET ANOTHER OBJECT of the present invention is to provide an improved core for an adhesive device for
15 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 with an upper area that has a display throughbore therethrough for a hanging display and a lower area,
20 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 plurality of release sheet covers that are individual and separate from each other. The improvement includes the core being a plurality of synthetic
25 fibers laid side by side and not twisted, braided, interwoven, intertwined, entwined, or interlaced with each other so as to assure 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
30 soft and pliable, as compared to a thread or a mono-filament which is thick, not smooth, and does absorb 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
35 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;
- 5 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;
- 10 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;
- 15 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;
- 20 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;
- 25 FIGURE 10 is a diagrammatic side elevational view of a core not made by the present invention;
- FIGURE 11 is a diagrammatic end view of a first embodiment of the present invention;
- 30 FIGURE 12 is a diagrammatic end view of a second embodiment of the present invention;
- FIGURE 13 is a diagrammatic end view of a third embodiment of the present invention;
- 35 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.

LIST OF REFERENCE NUMERALS UTILIZED IN THE DRAWINGPrior Art

- 10 device for attaching a false eyelash when the original
adhesive thereon has lost its adhesivity
- 5 12 false eyelash
- 14 eyelid
- 16 core
- 18 adhesive coating for attaching core 16 along false eyelash
12 and allowing false eyelash 12 to be attached to eyelid
- 10 14
- 19 attaching element
- 22 primary substrate
- 24 face of primary substrate 22
- 26 upper area of face 24 of primary substrate 22
- 15 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
- 32 plurality of release sheet covers

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Present Invention

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

First Embodiment

- 25 120 improved core
- 122 three synthetic fibers

Second Embodiment

220 improved core
222 three synthetic fibers
224 plane

5

Third Embodiment

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 322

10

Fourth Embodiment

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

Fifth Embodiment

15 520 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 42 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.

Even though "not twisted, braided, interwoven, intertwined, entwined, or interlaced with each other" and "does not absorb the adhesive coating 18" may be considered negative limitations by some, it is the only way, and by far the clearest way, to state the limitations, and therefore must be considered in determining patentability. Support for this assertion can be found in the notice entitled "Practice Re: Technical Rejections," dated April 30, 1965 (814 O.G. 715), which states that:

"The inclusion of a negative limitation shall not, in itself, be considered a sufficient basis for objection to or rejection of a claim."
[Emphasis added]

And, in In re Duva, 156 USPQ 90, 94 (CCPA 1967), where the Court stated:

"...it [is] held proper to claim a negative limitation even if a positive expression

could have been
employed and even at
the 'point of
novelty'... [Emphasis
added]

5

The fact that the plurality of synthetic fibers 42 are not
twisted, braided, interwoven, intertwined, entwined, or
interlaced with each other and do not absorb the adhesive coating
18 are of critical importance and obviously points of novelty,
10 since twisting braiding, interweaving,*intertwining, entwining,
or interlacing the plurality of synthetic fibers 42 with each
other would prevent the plurality of synthetic fibers 42 from
laying right on the eyelid, and more importantly, would be
uncomfortable to the eyelid, and absorbing the adhesive coating
15 18 would prevent the core from being soft and pliable.

And, even though "twisted, braided, interwoven, intertwined,
entwined, or interlaced with each other" and "thread or mono-
filament" are alternative expressions, their use is permitted,
since they contain equivalents, respectively, as per MPEP 706.03-
20 d (July 23, 1968), where it is ruled:

" A l t e r n a t i v e
expressions such as
'brake or locking
device' may make a
25 claim indefinite if the
limitation covers two
different elements. If
two equivalent parts
are referred to such as
30 'rods and bars,'
[however,] the
alternative expression
may be considered
proper. " [Emphasis
35 added]

And, as was decided in In re Wolfrum and Gold, 179 USPQ 620
(CCPA 1973), where the Court held:

"Section 112 would not support such a rejection [as an alternative] since it was clear what the applicant intended to claim, and that is all Section 112 requires."
[Emphasis added]

And, further in In re Hans, 179 USPQ 623 (CCPA 1973); and In re Pavlecka, 138 USPQ 118 (CCPA 1963).

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.

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 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.

The improvement further comprises the plurality of synthetic fibers 42 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 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.

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

10 The improvement further comprises the plurality of synthetic fibers 42 being five synthetic fibers 322 that 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.

15 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.

20 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.

25 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 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 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, 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.

CLAIMS

The invention claimed is:

1. An improved adhesive device for attaching a false eyelash to an eyelid of a type having a core, an adhesive coating surrounding the core so as to form an attaching element, a primary substrate being a card and having a face with an upper area having a display throughbore therethrough for a hanging display and a lower area, a secondary substrate disposed on the upper area of the primary substrate, below the display throughbore therethrough so as to not to interfere with hanging, and a plurality of release sheet covers being individual and separate from each other, wherein the adhesive coating is for attaching the core along the false eyelash and for also allowing the false eyelash to then be attached to the eyelid, wherein the secondary substrate has a plurality of the attaching elements spaced longitudinally therealong and held releasibly thereon by the adhesive coating of each the attaching element, wherein the core is elongated and slender, wherein the adhesive coating is pressure sensitive, and wherein each release sheet cover covers and protects an associated attaching element, prior to use, and is held releasibly thereon by the adhesive coating of the associated attaching element, said improvement comprising 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 that said plurality of synthetic fibers lay right, and are comfortable, on the eyelid, wherein 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 mono-filament which is thick, not smooth, and does absorb the adhesive coating so as not to remain soft and pliable.

2. The improvement as defined in claim 1, wherein each of said plurality of synthetic fibers has a thickness in a range of approximately 45 denier to approximately 70 denier.

3. The improvement as defined in claim 1, wherein said improvement further comprises said plurality of synthetic fibers being an odd number of synthetic fibers.

4. The improvement as defined in claim 1, wherein said improvement further comprises said plurality of synthetic fibers being three synthetic fibers.

5. The improvement as defined in claim 4, wherein said improvement further comprises said three synthetic fibers not lying in a plane.

6. The improvement as defined in claim 4, wherein said improvement further comprises each of said three synthetic fibers touching the two other synthetic fibers.



7. The improvement as defined in claim 4, wherein said improvement further comprises said three synthetic fibers lying in a plane.
8. The improvement as defined in claim 1, wherein said improvement further comprises said plurality of synthetic fibers being five synthetic fibers.
9. The improvement as defined in claim 8, wherein said improvement further comprises said five synthetic fibers not lying in a plane.
10. The improvement as defined in claim 8, wherein said improvement further comprises said five synthetic fibers having a central synthetic fiber surrounded by the four other synthetic fibers.
11. The improvement as defined in claim 8, wherein said improvement further comprises said five synthetic fibers lying in a pair of parallel planes.
12. The improvement as defined in claim 1, wherein said improvement further comprises said plurality of synthetic fibers being seven synthetic fibers.
13. The improvement as defined in claim 12, wherein said improvement further comprises said seven synthetic fibers not lying in a plane.



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14. The improvement as defined in claim 12, wherein said improvement further comprises said seven synthetic fibers having a central synthetic fiber surrounded by the six other synthetic fibers.