

(19)



(11)

EP 3 454 693 B1

(12)

EUROPEAN PATENT SPECIFICATION

(45) Date of publication and mention of the grant of the patent:

09.06.2021 Bulletin 2021/23

(51) Int Cl.:

A45D 40/04 (2006.01)

(86) International application number:

PCT/US2017/031637

(21) Application number: **17724244.3**

(22) Date of filing: **09.05.2017**

(87) International publication number:

WO 2017/196766 (16.11.2017 Gazette 2017/46)

(54) PERSONAL CARE PRODUCTS AND APPLICATORS

KÖRPERPFLEGEPRODUKTE UND APPLIKATOREN

PRODUITS DE SOINS PERSONNELS ET APPLICATEURS

(84) Designated Contracting States:

**AL AT BE BG CH CY CZ DE DK EE ES FI FR GB
GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO
PL PT RO RS SE SI SK SM TR**

(30) Priority: **10.05.2016 US 201662334155 P**

(43) Date of publication of application:

20.03.2019 Bulletin 2019/12

(73) Proprietor: **Bayer Healthcare LLC**

Whippany, NJ 07981 (US)

(72) Inventors:

- **GRAHAM, Heidi**
Charlottesville, Virginia 22901 (US)

• **SCHWALL, Stephen**

Chicago, Illinois 60622 (US)

• **LOCKWOOD, Ross**

Chicago, Illinois 60657 (US)

• **ALMQUIST, Julka**

Minneapolis, MN55407 (US)

(74) Representative: **Wihstutz, Kolja**

Beiersdorf AG

Brieffach 79

Unnastraße 48

20253 Hamburg (DE)

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Description**FIELD OF THE INVENTION**

[0001] This invention relates to solid personal care products. More specifically, the invention relates to solid personal care products such as solid sunscreens with an included angle, as well as related applicators thereof.

BACKGROUND OF THE INVENTION

[0002] Solid personal care products and containers for such products are known, and typically consist of a body in which the solid composition may be contained, which is typically made from a plastics material. The body may have a variety of cross-sectional shapes, but most popular are circular and ellipsoidal. The container will typically have a detachable cap to protect the contents from the undesirable effects of prolonged exposure to air, and an elevation mechanism by which the solid product such as a stick is elevated towards the open top end of the container, in order that a portion of the stick may protrude from the top of the container to facilitate use.

[0003] Whilst most containers have a generally flat opening when seen from the side, it is also known for cosmetic containers to have a convex profile. For example, U.S. Pat. No. 5,275,496 describes a cosmetic stick package which is generally ellipsoidal in cross-sectional shape, and has an outwardly arched profile when viewed along the minor axes of the ellipsoid. Such a profile is said to facilitate in providing increased comfort of these stick products during application, and is also said to provide extra support for the stick so as to prevent crumbling on application. US2457342A discloses a cosmetic stick with inclined faces.

[0004] Sunscreen sticks are known in the prior art which are deodorant-like applicators for applying solid sunscreen. These products include a layer of solid sunscreen having a flat, planar exposed surface which is advanceable as replenishment is needed during use. However, the sunscreen sticks are provided in a single dimension and shape. Therefore, a single sunscreen stick product is not capable of been used for application to both a broad area and a small, targeted area of the body.

SUMMARY OF THE INVENTION

[0005] The invention relates to a personal care product according to claim 1.

[0006] These and other features of the invention will be better understood through a study of the following detailed description and accompanying drawings.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007]

Figure 1 depicts a front view of a personal care product in an applicator in accordance with an embodiment of the subject invention;

Figure 2 depicts a perspective view of a personal care product in an applicator in accordance with an embodiment of the subject invention;

Figure 3 depicts a front view of a package for a personal care product in accordance with an embodiment of the subject invention, including a cap thereof; Figure 4 depicts a front view of the package for a personal care product of Figure 3, without the cap thereof;

Figures 5-6 depict application of a personal care product made in accordance with an embodiment of the subject invention;

Figure 7 is a top plan view taken along line 8-8 of Figure 1;

Figures 8-10 depict different arrangements of the inclined faces useable with certain embodiments of the subject invention; and

Figures 11-12 depict alternative embodiments of a personal care product in an applicator in accordance with the subject invention.

DETAILED DESCRIPTION OF THE INVENTION

[0008] The invention relates to a personal care product according to claim 1. The personal care product comprises an applicator and a layer of solid personal care product. The applicator includes a body having a dispensing opening; and a support surface disposed within the body. The support surface is advanceable relative to the body towards the dispense opening from a first position spaced from said dispensing opening. A layer of solid personal care product is disposed on the support surface, the layer defines an exposed first face directed away from the support surface, the exposed first face being bounded by spaced-apart first and second edges extending between first and second ends, the first and second edges being longer than the first and second ends, the exposed first face defining a first inclined face extending from the first end to a first location between the first and second ends and a second inclined face extending from the second end to a second location between the first and second ends, wherein the first and second inclined faces define an included first angle which is less than 180 degrees. Advancement of the support surface relative to the body causes progressive advancement of the layer of solid personal care product through the dispensing opening. In certain embodiments, the layer of solid personal care product is generally the same thickness throughout.

[0009] In certain embodiments, the personal care product further comprises means to advance the support surface. In certain preferred embodiments, the means to advance the support surface comprises a rotatable member configured to advance the support surface with rotation thereof.

[0010] In certain embodiments, the first and second

locations are spaced apart. In certain preferred embodiments, the exposed face defines an arcuate intermediate face between the first and second locations.

[0011] The support surface also defines a second face directed towards the dispensing opening with third and fourth edges extending between third and fourth ends, the third and fourth edges being longer than the third and fourth ends. The support surface also defines third and fourth inclined faces, the third inclined face extending from the third end to a third location between the third and fourth ends and a fourth inclined face extending from the fourth end to a fourth location between the third and fourth ends, wherein the third and fourth inclined faces define an included second angle which is less than 180 degrees. This arrangement allows for a layer of solid personal care product to be defined on the support surface having differently dimensioned and angularly disposed portions.

[0012] In certain embodiments, the personal care applicator further comprises means to advance the support surface. In certain other embodiments, the included angle is about 120 degrees. In still other embodiments, the ratio between the length of the first inclined face and the second inclined face is at least 2:1. With reference to Figures 1-4, a personal care product is shown and generally designated with the reference numeral 10. The product 10 generally includes an applicator 12 and a layer of solid personal care product 14. As used herein, "solid personal care product" is any personal care product that is maintainable in the form of a stable layer, under room temperature conditions, throughout storage, transportation and use, such as being one or more of a solid, slurry, powder amalgamation, and/or gel. Any form of solid personal care product may be used with the subject invention. As used herein, "solid personal care product" may be a cosmetic product, a sunscreen product, a deodorant, or an antiperspirant. In a preferred embodiment, the solid personal care product is a solid sunscreen.

[0013] The applicator 12 includes a body 16 having a dispensing opening 18 on one end and a substantially flat base 19 on the other end. A support surface 20 is disposed in the body 16 so as to be advanceable relative to the body 16. In an initial state, the support surface 20 is located at a first position within the body 16 spaced from the dispensing opening 18. In certain embodiments, the dispensing opening 18 has the same general profile (e.g., included angle) as the layer of solid personal care product 14. In other embodiments, the dispensing opening 18 includes a substantially flat profile that parallels the base 19 (see, e.g., Figure 11).

[0014] As will be appreciated by those skilled in the art, the support surface 20 may be advanced relative to the body 16 using any means including any configuration to cause manual, mechanical or powered displacement. With manual displacement, the support surface 20 may be manually urged as needed relative to the body 16 (e.g., a slot may be formed in the body 16 with a tab extending from the support surface 20 through the slot

so as to be engageable externally of the body 16 to be manually manipulated in moving the support surface 20). With mechanical advancement, as shown in Figure 2, a rotatable member 22 may be provided configured such that rotation thereof relative to the body 16 is converted to linear translation of the support surface 20 relative to the body 16. By way of non-limiting example, as shown in Figure 2, a threaded rod 24 may be provided which threadably engages the rotatable member 22 such that rotation of the rotatable member 22 causes linear translation of the threaded rod 24. With the threaded rod 24 fixed to the support surface 20, the support surface 20 moves in concert with the threaded rod 24. The rotatable member 22 may be in the form of a dial (Figure 2) or as a handle (Figures 3 and 4), which may match the body 16 in shape and look for an aesthetically pleasing appearance. One or more surface features 26, such as surface texturing, dimples, notches, protrusions, and the like, may be provided on the rotatable member 22 to enhance user handling. Alternatively, a powered, e.g., electrically powered, configuration may be utilized, such as, a button activated electric motor adapted to displace the support surface 20 relative to the body 16.

[0015] A cap 28 may be provided to cover the dispensing opening 18, thereby covering the personal care product 10. Any configuration to releasably retain the cap 28 on the body 16 may be utilized including, but not limited to, frictional engagement, interference fit, and cooperating locking features (e.g., snap-on lip and detent(s)). As shown in Figures 3 and 4, a recessed profile 30 may be defined in the body 16 shaped to match a portion of the cap 28. The cap 28 helps protect the contents of the package from the deleterious effects of contact with air, such as drying out of the personal care stick.

[0016] In certain embodiments, the dispense opening 18 and the recessed profile 30 both have the same general profile (e.g., included angle of the exposed face of the product) as the layer of solid personal care product 14 (Figures 3 and 4). In other embodiments, the dispense opening 18 and the recessed profile 30 both include a substantially flat edge that parallels the base 19 (See, e.g., Figure 11). In still other embodiments, while the dispense opening 18 has the same general profile (e.g., included angle) as the layer of solid personal care product 14, the recessed profile 30 ends with a substantially flat profile which parallels the base 19 (See, e.g., Figure 12).

[0017] In an initial state, as shown in Figure 7, the layer of solid personal care product 14 defines an exposed face 32 which is directed away from the support surface 20. The exposed face 32 is the portion of the layer 14 intended for application to a user's skin. The exposed face 32 preferably is bounded by spaced-apart first and second edges 34, 36 which extend between first and second ends 38, 40. The first and second edges 34, 36 are each longer in length than each of the first and second ends 38, 40. The corners between the first and second edges 34, 36 and the first and second ends 38, 40 may be square or softened with rounded, chamfered or other

non-square configuration. The perimeter of the exposed face 32, at the intersection with the first and second edges 34, 36 and the first and second ends 38, 40, may be square or softened with rounded, chamfered or other non-square configuration.

[0018] The exposed first face 32 defines a first inclined face 42 extending from the first end 38 to a first location 44 between the first and second ends 38, 40. The exposed first face 32 also defines a second inclined face 46 extending from the second end 40 to a second location 48 between the first and second ends 38, 40. The first and second inclined faces 42, 46 define an included first angle α which is less than 180 degrees. The included first angle α may be less than 150 degrees, further may be less than 120 degrees, and further may be acute. In certain embodiments, the included first angle α is between 30 to 150 degrees. In other embodiments, the included first angle α is between 60 to 120 degrees. In still other embodiments, the included first angle α is between 90 to 120 degrees. In preferred embodiments, the included first angle α is about 120 degree.

[0019] Preferably, the first inclined face 42 has a length greater than the second inclined face 46. In certain embodiments, the ratio between the length of the first inclined face and the second inclined face is at least 2:1. In certain preferred embodiments, the ratio between the length of the first inclined face and the second inclined face is about 3:1.

[0020] As shown in Figure 8, the first location 44 and the second location 48 may be coincident as to be at the same location along the exposed face 32. With this arrangement, the first and second inclined faces 42, 46 define a closed angular profile. Preferably, as shown in Figures 9 and 10, the first location 44 and the second location 48 are spaced apart along the exposed face 32 with an intermediate face 50 defined therebetween. The intermediate face 50 may be planar, as shown in Figure 9, or, more preferably, is formed arcuate, as shown in Figure 10.

[0021] The first inclined face 42 and the second inclined face 46 are formed planar between the first and second edges 34, 36.

[0022] In the package exemplified, all parts of the package may be made from plastics materials, and may be manufactured and assembled by known techniques, which may for example involve injection moulding. Where possible and convenient, the component parts of the package may be integrally moulded.

[0023] Packages according to this embodiment may also advantageously be used in conjunction with a former (not shown). Use of a former helps in keeping the personal care stick isolated from air after manufacture but before first use by the user, and also facilitates manufacture and casting of the upper surface of the stick, where for example the stick is manufactured according to the known process whereby the stick is molten cast and bottom filled into the empty package. If used, the former is preferably configured so as to releasably and snugly fit

into package opening 18 prior to manufacture, but then to be readily removed and discarded on first use.

[0024] In use, it is preferred that the layer of solid personal care product 14 be applied evenly along the support surface 20 so to be generally of even thickness. The support surface 20 has the same general profile as the corresponding exposed face 32 (has a second face 32A facing the dispensing opening 18 formed with third and fourth edges, third and fourth ends, and third and fourth inclined faces with included second angle α as described above with respect to the exposed face 32). The support surface 20 is advanced relative to the body 16 to cause progressive advancement of the layer of solid personal care product 14 in providing replenishment of exposed and useable product. As will be appreciated by those skilled in the art, the support surface 20 may be configured to be retractable into the body 16 (i.e., moved in a reverse direction) for storage between uses.

[0025] With the personal care product 10, as shown in Figures 5 and 6, differently dimensioned and shaped surfaces are provided for application to a user's skin. For example, the first inclined face 42 may be provided with a greater length than the second inclined face 46. This allows for the first inclined face 42 to be used for broader applications, such as on the cheeks or forehead, while the second inclined face 46 may be used for small, targeted areas, such as the chin. In addition, the intermediate face 50 may be provided with a length shorter than both the first and second inclined faces 42, 46 and be used for even smaller, more targeted areas, such as the nose and about the eyes.

[0026] While preferred illustrative embodiments of the present invention are described, one skilled in the art will appreciate that the present invention can be practiced by other than the described embodiments, which are presented for purposes of illustration only and not by way of limitation. The present invention is limited only by the claims that follow.

Claims

1. A personal care (10) product comprising:

an applicator (12) including:

a body (16) having a dispensing opening (18) on one end and a substantially flat base (19) on the other end; and
a support surface (20) disposed within said body (16), said support surface (20) being advanceable relative to said body (16) towards said dispense opening (18) from a first position spaced from said dispensing opening (18); and

a layer of solid personal care product (14) disposed on said support surface (20), said layer

(14) defining an exposed first face (32) directed away from said support surface (20), said exposed first face (32) being bounded by spaced-apart first and second edges (34, 36) extending between first and second ends (38, 40), said first and second edges (34, 36) being longer than said first and second ends (38, 40), said exposed first face (32) defining a first inclined face (42) extending from said first end (38) to a first location (44) between said first and second ends (38, 40) and a second inclined face (46) extending from said second end (40) to a second location (48) between said first and second ends (38, 40), wherein said first and second inclined faces (42, 46) define an included first angle (α) which is less than 180 degrees, wherein advancement of said support surface (20) relative to said body (16) causes progressive advancement of said layer of solid personal care product (14) through said dispensing opening (18),

characterized in that

said support surface (20) defines a second face (32A) directed towards said dispensing opening (18), said second face (32A) having spaced-apart third and fourth edges extending between third and fourth ends, said third and fourth edges being longer than said third and fourth ends, said second face defining a third inclined face extending from said third end to a third location between said third and fourth ends and a fourth inclined face extending from said fourth end to a fourth location between said third and fourth ends, wherein said third and fourth inclined faces define an included second angle which less than 180 degrees.

2. The personal care product (10) as in claim 1, wherein said layer of solid personal care (14) product is generally the same thickness throughout.
3. The personal care product (10) as in claim 1, further comprising means to advance said support surface (20).
4. The personal care product (10) as in claim 3, wherein the means to advance said support surface (20) comprising a rotatable member (32) configured to advance said support surface (10) with rotation thereof.
5. The personal care product (10) as in claim 1, wherein said first and second locations (44, 48) are coincident.
6. The personal care product (10) as in claim 1, wherein said first and second locations (44, 48) are spaced apart.

7. The personal care product (10) as in claim 6, wherein said exposed face (32) defines an arcuate intermediate face (50) between said first and second locations (44, 48).
8. The personal care product (10) as in claim 1, wherein said included first angle (α) is between 30-150 degrees, preferably between 60 and 120 degrees and most preferred about 120 degrees.
9. The personal care product (10) as in claim 1, wherein the ratio between the length of said first inclined face (42) and the second inclined face (46) is at least 2:1.
10. The personal care product (10) as in claim 1, wherein said personal care product (10) is a sunscreen.
11. The personal care product (10) as in claim 1, further comprising a cap (28) for covering the dispensing opening (28).
12. The personal care product (10) as in claim 1, wherein the dispensing opening (18) has a similar profile as the exposed face (32) of the layer (14) of solid personal care product.
13. The personal care product (10) as in claim 1, wherein the dispensing opening (18) includes a substantially flat edge that parallels the base (19).
14. The personal care product (10) as in claim 1, wherein said included second angle is about 120 degrees.
15. The personal care product (10) as in claim 1, wherein the ratio between the length of said third inclined face and the fourth inclined face is at least 2:1.

Patentansprüche

1. Produkt zur Körperpflege (10), umfassend:

einen Applikator (12), welcher einschließt:

einen Körper (16) mit einer Spendeöffnung (18) an einem Ende und einer im Wesentlichen flachen Basis (19) auf dem anderen Ende; und

eine Trägerfläche (20), die innerhalb des Körpers (16) angeordnet ist, wobei die Trägerfläche (20) relativ zu dem Körper (16) in Richtung der Spendeöffnung (18) aus einer ersten Position verschiebbar ist, die von der Spendeöffnung (18) beabstandet ist; und

eine Schicht aus festem Körperpflegeprodukt (14), die auf der Trägerfläche (20) angeordnet ist, wobei die Schicht (14) eine exponierte erste

Seite (32) definiert, die von der Trägerfläche (20) weg weist, wobei die exponierte erste Seite (32) durch beabstandete erste und zweite Ränder (34, 36) begrenzt wird, die sich zwischen ersten und zweiten Enden (38, 40) erstrecken, wobei die ersten und zweiten Ränder (34, 36) länger als die ersten und zweiten Enden (38, 40) sind, die exponierte erste Seite (32) eine erste schräge Seite (42), die sich von dem ersten Ende (38) zu einem ersten Ort (44) zwischen dem ersten und dem zweiten Ende (38, 40) erstreckt, und eine zweite schräge Seite (46) definiert, die sich von dem zweiten Ende (40) zu einem zweiten Ort (48) zwischen dem ersten und dem zweiten Ende (38, 40) erstreckt, wobei die erste und die zweite schräge Seite (42, 46) einen eingeschlossenen ersten Winkel (α) definieren, der kleiner als 180 Grad ist, wobei das Vorschieben der Trägerfläche (20) relativ zu dem Körper (16) zu progressivem Vorschieben der Schicht des festen Körperpflegeprodukts (14) durch die Spendeöffnung (18) hindurch führt,

dadurch gekennzeichnet, dass

die Trägerfläche (20) eine zweite Seite (32A) definiert, die zu der Spendeöffnung (18) weist, wobei die zweite Seite (32A) beabstandete dritte und vierte Ränder aufweist, die sich zwischen dritten und vierten Enden erstrecken, wobei die dritten und vierten Ränder länger als die dritten und vierten Enden sind, die zweite Seite eine dritte schräge Seite, die sich von dem dritten Ende zu einem dritten Ort zwischen dem dritten und dem vierten Ende erstreckt, und eine vierte schräge Seite definiert, die sich von dem vierten Ende zu einem vierten Ort zwischen dem dritten und dem vierten Ende erstreckt, wobei die dritten und vierten schrägen Seiten einen eingeschlossenen zweiten Winkel mit weniger als 180 Grad definieren.

2. Körperpflegeprodukt (10) nach Anspruch 1, wobei die Schicht des festen Produkts zur Körperpflege (14) allgemein überall die gleiche Dicke aufweist.
3. Körperpflegeprodukt (10) nach Anspruch 1, des Weiteren umfassend Mittel zum Vorschieben der Trägerfläche (20).
4. Körperpflegeprodukt (10) nach Anspruch 3, wobei die Mittel zum Vorschieben der Trägerfläche (20) ein rotierbares Element (32) umfassen, das ausgestaltet ist, um die Trägerfläche (10) bei dessen Rotation vorzuschieben.
5. Körperpflegeprodukt (10) nach Anspruch 1, wobei der erste und der zweite Ort (44, 48) übereinstimmen.

6. Körperpflegeprodukt (10) nach Anspruch 1, wobei der erste und der zweite Ort (44, 48) beabstandet sind.

7. Körperpflegeprodukt (10) nach Anspruch 6, wobei die exponierte Seite (32) eine gebogene Zwischenseite (50) zwischen dem ersten und dem zweiten Ort (44, 48) definiert.

8. Körperpflegeprodukt (10) nach Anspruch 1, wobei der eingeschlossene erste Winkel (α) zwischen 30 und 150 Grad liegt, vorzugsweise zwischen 60 und 120 Grad und am meisten bevorzugt etwa 120 Grad.

9. Körperpflegeprodukt (10) nach Anspruch 1, wobei das Verhältnis zwischen der Länge der ersten schrägen Seite (42) und der zweiten schrägen Seite (46) mindestens 2:1 beträgt.

10. Körperpflegeprodukt (10) nach Anspruch 1, wobei das Körperpflegeprodukt (10) ein Sonnenschutz ist.

11. Körperpflegeprodukt (10) nach Anspruch 1, des Weiteren umfassend eine Kappe (28) zum Abdecken der Spendeöffnung (28).

12. Körperpflegeprodukt (10) nach Anspruch 1, wobei die Spendeöffnung (18) ein ähnliches Profil wie die exponierte Seite (32) der Schicht (14) des festen Körperpflegeprodukts aufweist.

13. Körperpflegeprodukt (10) nach Anspruch 1, wobei die Spendeöffnung (18) einen im Wesentlichen flachen Rand einschließt, der parallel zu der Basis (19) verläuft.

14. Körperpflegeprodukt (10) nach Anspruch 1, wobei der eingeschlossene zweite Winkel etwa 120 Grad beträgt.

15. Körperpflegeprodukt (10) nach Anspruch 1, wobei das Verhältnis zwischen der Länge der dritten schrägen Seite und der vierten schrägen Seite mindestens 2:1 beträgt.

Revendications

1. Produit de soins personnels (10) comprenant :

un applicateur (12) comprenant :

un corps (16) possédant une ouverture de distribution (18) sur une extrémité et une base sensiblement plate (19) sur l'autre extrémité ; et
une surface de support (20) disposée à l'intérieur dudit corps (16), ladite surface de

support (20) pouvant être avancée par rapport audit corps (16) en direction de ladite ouverture de distribution (18) à partir d'une première position espacée de ladite première ouverture de distribution (18) ; et

une couche de produit de soins personnels solide (14) disposée sur ladite surface de support (20), ladite couche (14) définissant une première face apparente (32) dirigée à l'opposé de ladite surface de support (20), ladite première face apparente (32) étant liée par des premier et deuxième bords espacés (34, 36) s'étendant entre des première et deuxième extrémités (38, 40), lesdits premier et deuxième bords (34, 36) étant plus longs que lesdites première et deuxième extrémités (38, 40), ladite première face apparente (32) définissant une première face inclinée (42) s'étendant depuis ladite première extrémité (38) vers un premier emplacement (44) entre lesdites première et deuxième extrémités (38, 40) et une deuxième face inclinée (46) s'étendant depuis ladite deuxième extrémité (40) vers un deuxième emplacement (48) entre lesdites première et deuxième extrémités (38, 40), dans lequel lesdites première et deuxième faces inclinées (42, 46) définissent un premier angle inclus (α) qui est inférieur à 180 degrés, dans lequel le mouvement d'avance de ladite surface de support (20) par rapport audit corps (16) provoque un mouvement d'avance progressif de ladite couche de produit de soins personnels solide (14) à travers ladite ouverture de distribution (18),

caractérisé en ce que

ladite surface de support (20) définit une deuxième face (32A) orientée en direction de ladite ouverture de distribution (18), ladite deuxième face (32A) possédant des troisième et quatrième bords espacés s'étendant entre des troisième et quatrième extrémités, lesdits troisième et quatrième bords étant plus longs que lesdites troisième et quatrième extrémités, ladite deuxième face définissant une troisième face inclinée s'étendant depuis ladite troisième extrémité vers un troisième emplacement entre lesdites troisième et quatrième extrémités et une quatrième face inclinée s'étendant depuis ladite quatrième extrémité vers un quatrième emplacement entre lesdites troisième et quatrième extrémités, lesdites troisième et quatrième faces inclinées définissant un second angle inclus qui est inférieur à 180 degrés.

2. Produit de soins personnels (10) selon la revendication 1, dans lequel ladite couche de produit de soins personnels solide (14) a généralement la même épaisseur partout.

3. Produit de soins personnels (10) selon la revendication 1, comprenant en outre des moyens pour faire avancer ladite surface de support (20).
4. Produit de soins personnels (10) selon la revendication 3, dans lequel les moyens pour faire avancer ladite surface de support (20) comprennent un élément rotatif (32) configuré pour faire avancer ladite surface de support (10) avec une rotation de celui-ci.
5. Produit de soins personnels (10) selon la revendication 1, dans lequel lesdits premier et deuxième emplacements (44, 48) coïncident.
6. Produit de soins personnels (10) selon la revendication 1, dans lequel lesdits premier et deuxième emplacements (44, 48) sont espacés.
7. Produit de soins personnels (10) selon la revendication 6, dans lequel ladite face apparente (32) définit une face arquée intermédiaire (50) entre lesdits premier et deuxième emplacements (44, 48).
8. Produit de soins personnels (10) selon la revendication 1, dans lequel ledit premier angle inclus (α) est entre 30 et 150 degrés, de préférence entre 60 et 120 degrés et mieux encore d'environ 120 degrés.
9. Produit de soins personnels (10) selon la revendication 1, dans lequel le rapport entre la longueur de ladite première face inclinée (42) et la deuxième face inclinée (46) est d'au moins 2:1.
10. Produit de soins personnels (10) selon la revendication 1, dans lequel ledit produit de soins personnels (10) est un écran solaire.
11. Produit de soins personnels (10) selon la revendication 1, comprenant en outre un capuchon (28) pour couvrir l'ouverture de distribution (28).
12. Produit de soins personnels (10) selon la revendication 1, dans lequel l'ouverture de distribution (18) a un profil semblable à la face apparente (32) de la couche (14) de produit de soins personnels solide.
13. Produit de soins personnels (10) selon la revendication 1, dans lequel l'ouverture de distribution (18) comprend un bord sensiblement plat parallèle à la base (19).
14. Produit de soins personnels (10) selon la revendication 1, dans lequel ledit second angle inclus est d'environ 120 degrés.
15. Produit de soins personnels (10) selon la revendication 1, dans lequel le rapport entre la longueur de ladite troisième face inclinée et la quatrième face

inclinée est d'au moins 2:1.

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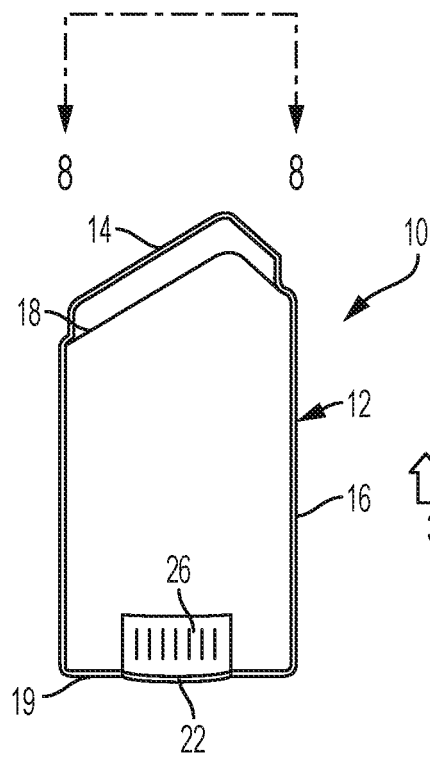


FIG. 1

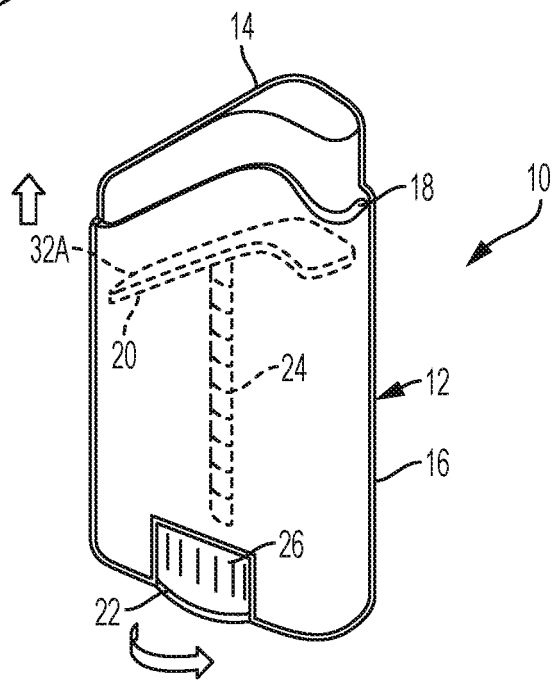


FIG. 2

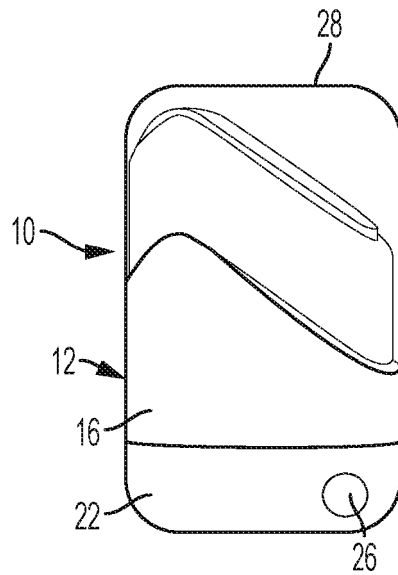


FIG. 3

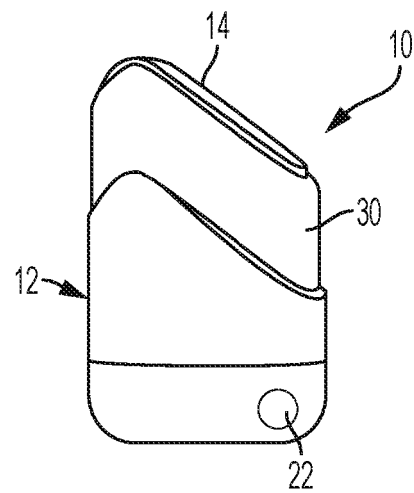


FIG. 4

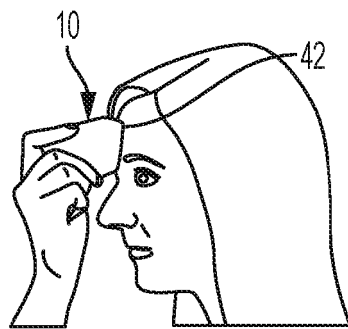


FIG. 5

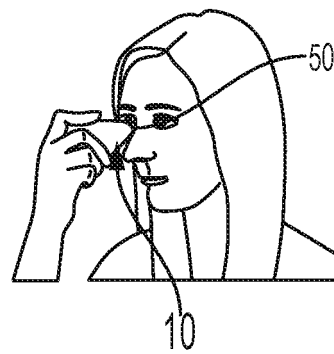


FIG. 6

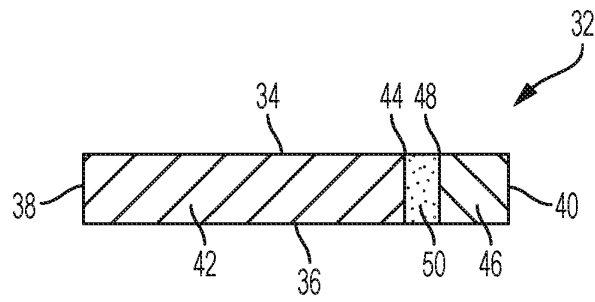


FIG. 7

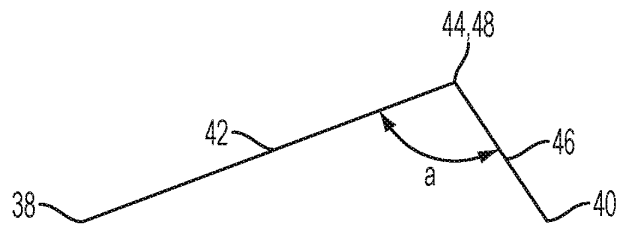


FIG. 8

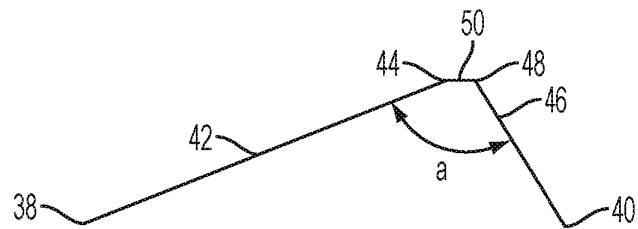


FIG. 9

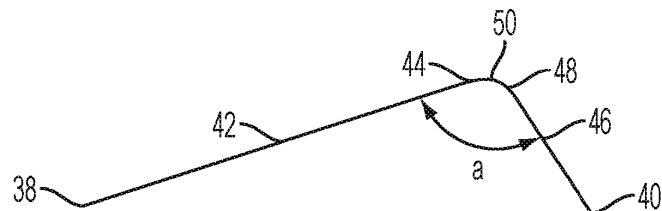


FIG. 10

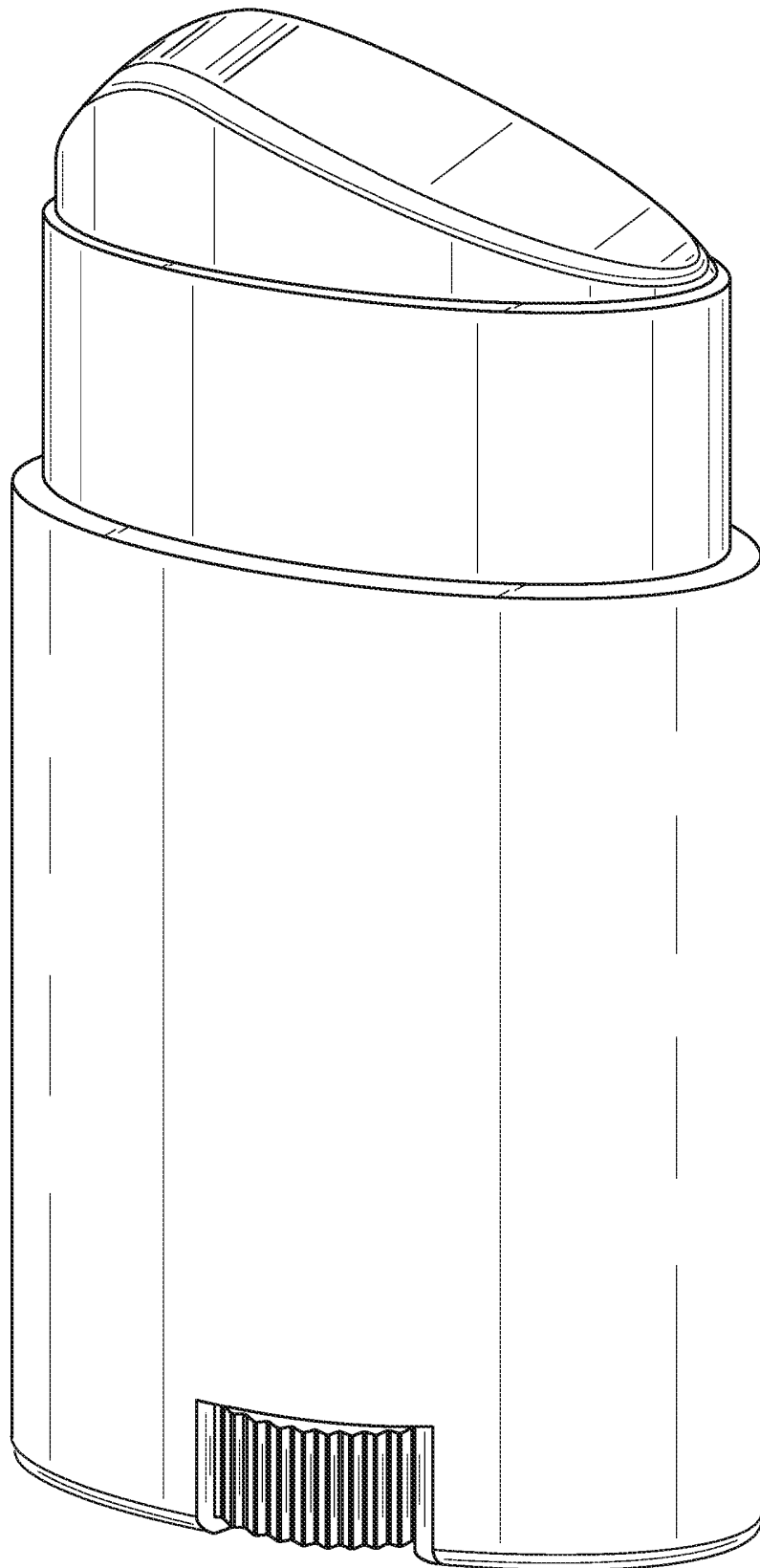


FIG. 11

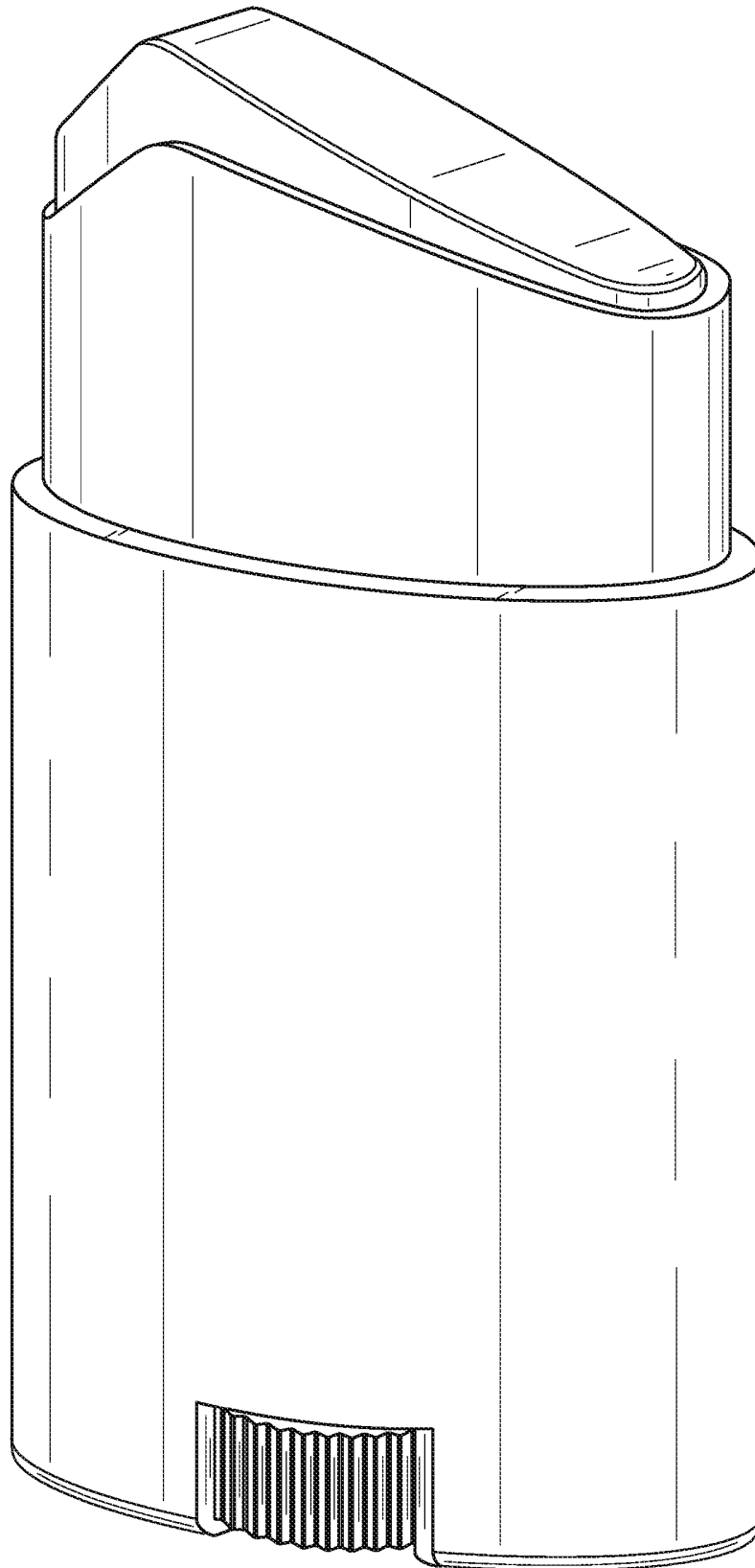


FIG. 12

REFERENCES CITED IN THE DESCRIPTION

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