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(54) **SLIDING CAP AND TUBE**

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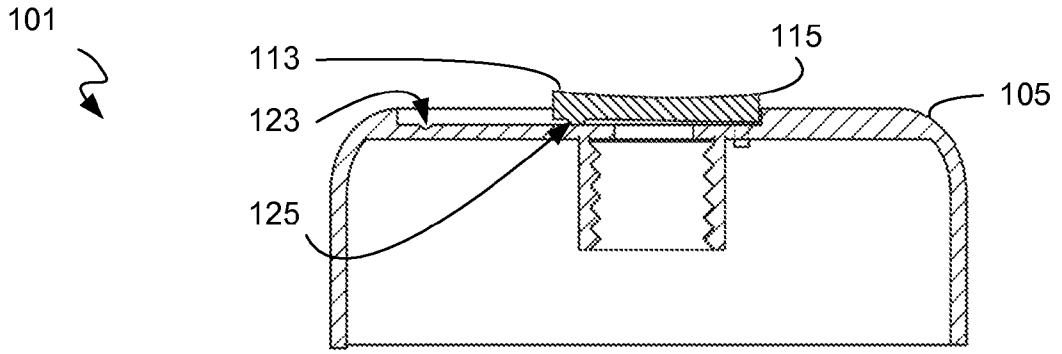
(52) **U.S. Cl.**
CPC ***B65D 43/12*** (2013.01)

(57) **ABSTRACT**

A device and method for dispensing, including: a base member having a dispenser opening and at least one track opening and a dispenser opening, wherein: the at least one track opening includes at least one track, and the dispenser opening is adjacent to the at least one track opening and at least one track and is operable to allow a flow of a fluid composition; and a sliding member including a blade with at least one track member, wherein: the at least one track member is operable to secure the sliding member with the at least one track of the base member, and the at least one track member is operable to allow the sliding member to travel along the at least one track and the blade to cover or uncover the dispenser opening.



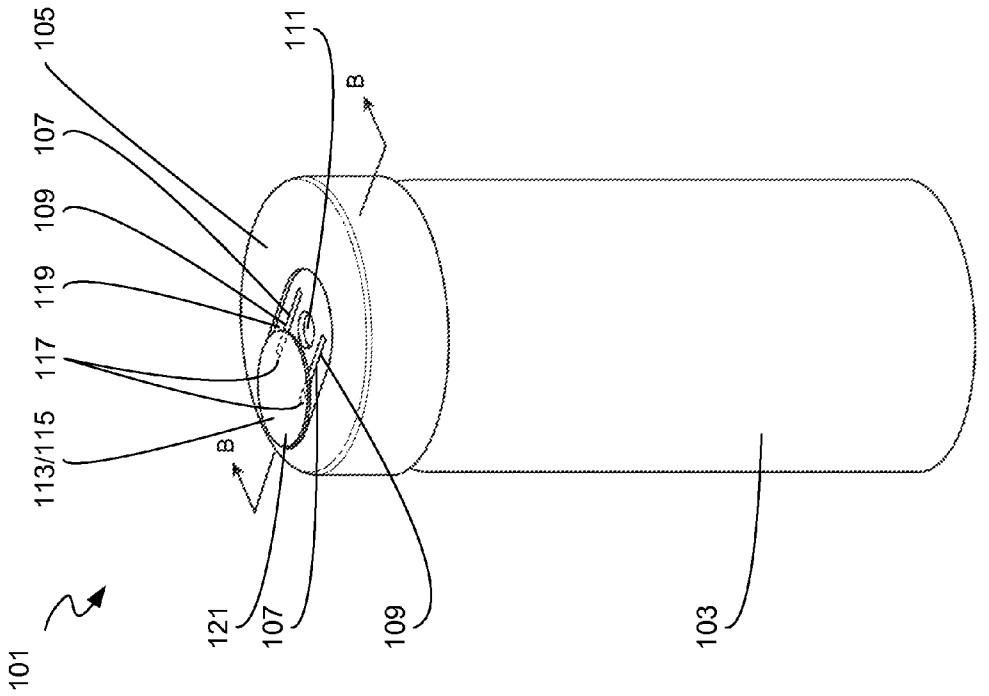

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FIG. 1B

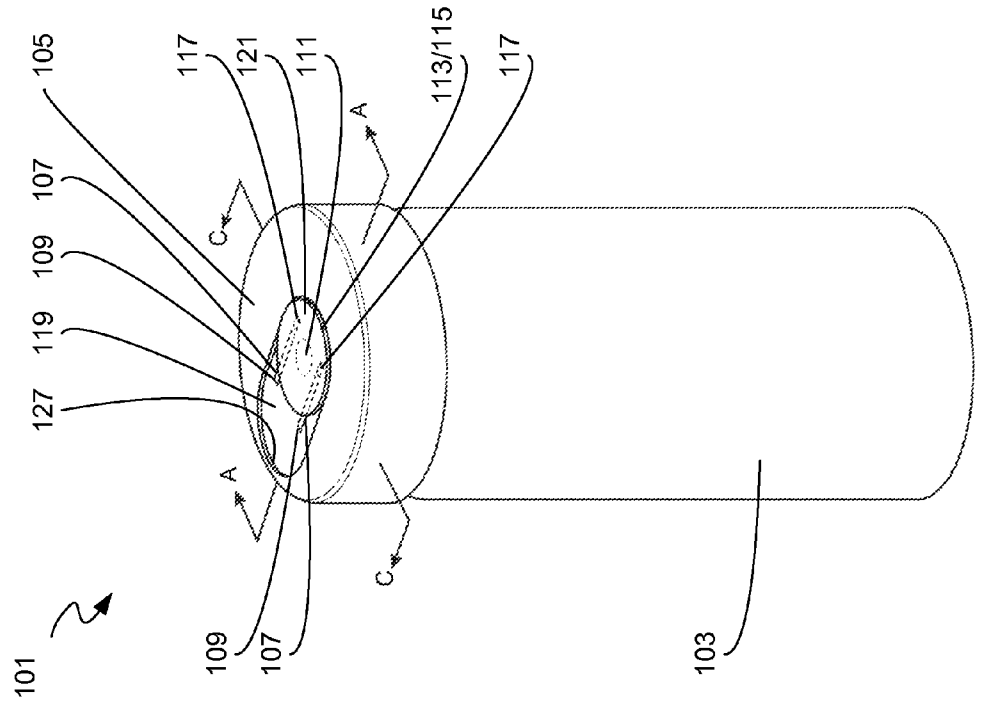
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FIG. 1A

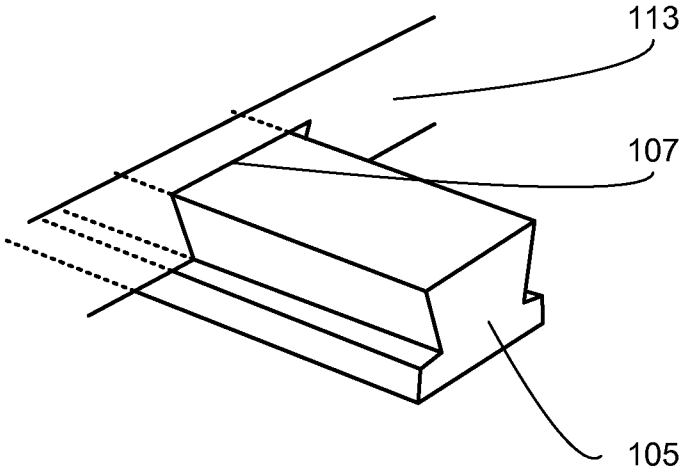


FIG. 2A

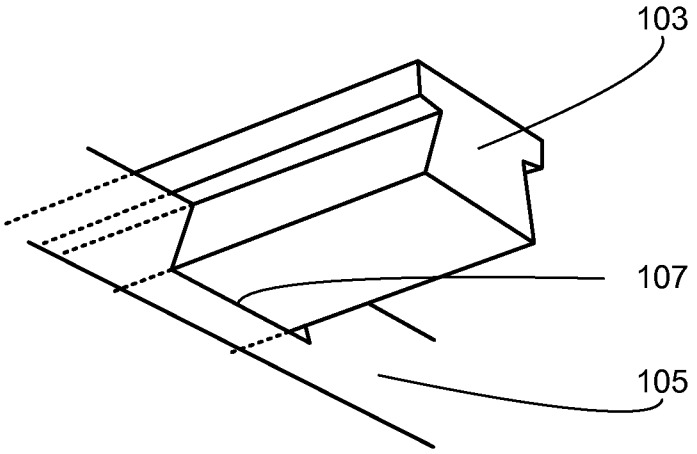


FIG. 2B

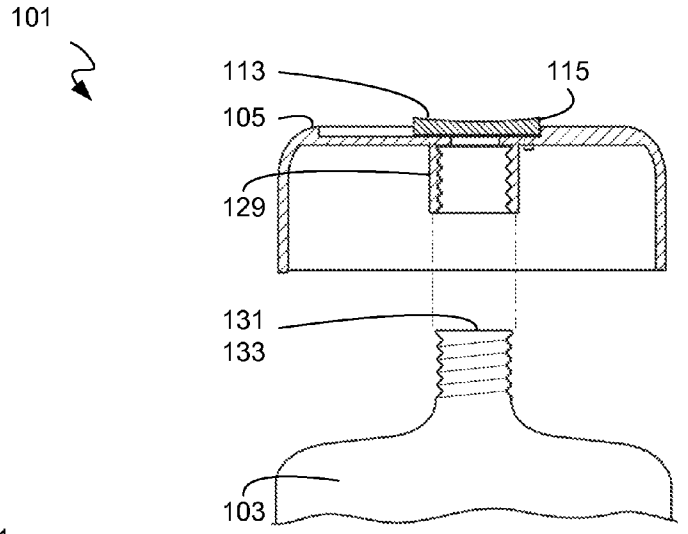
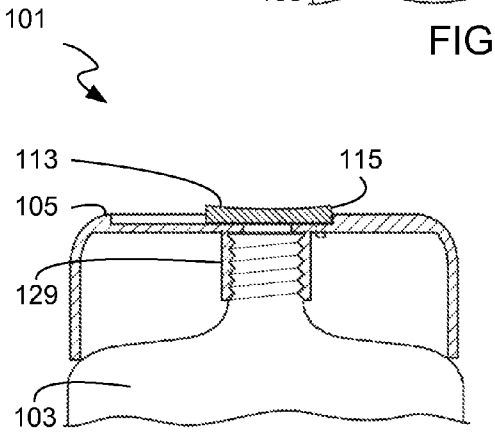
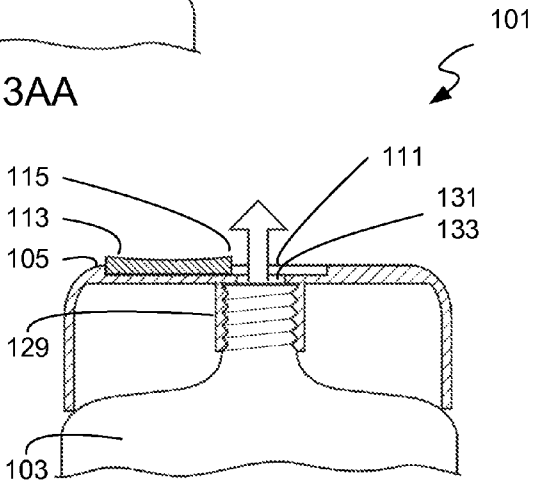


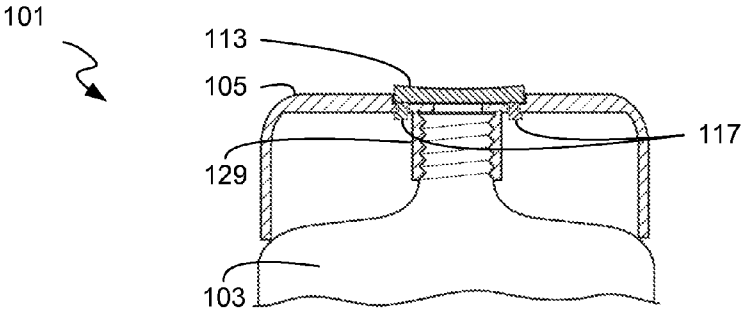
FIG. 3AA



A-A
FIG. 3A



B-B
FIG. 3B



C-C
FIG. 3C

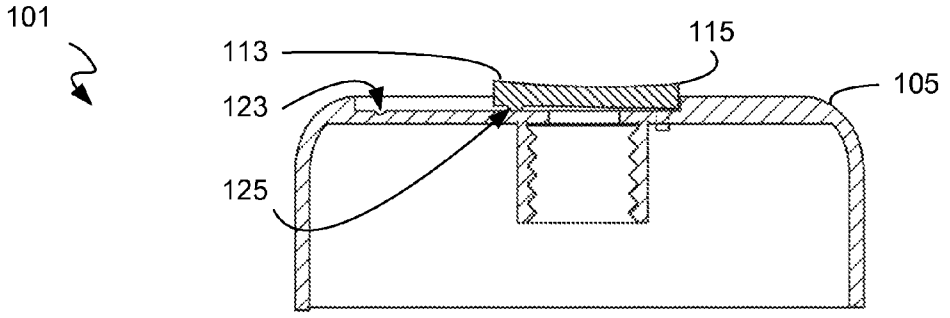


FIG. 4A

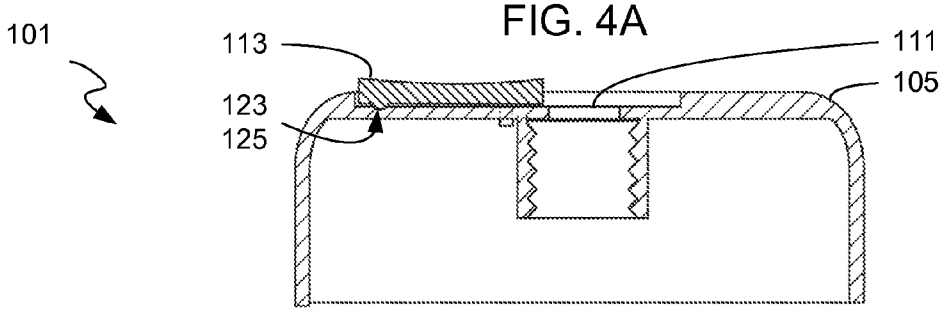


FIG. 4B

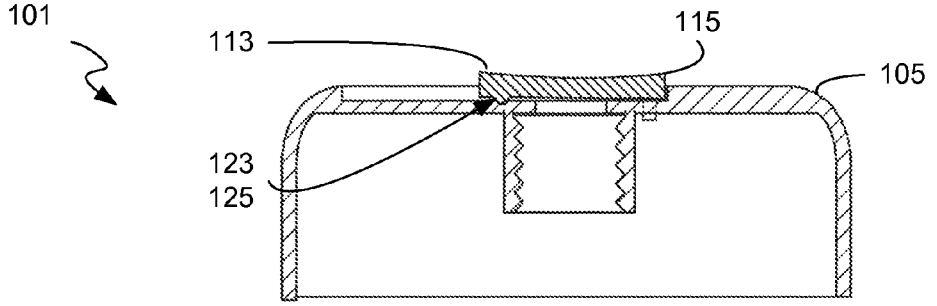


FIG. 4C

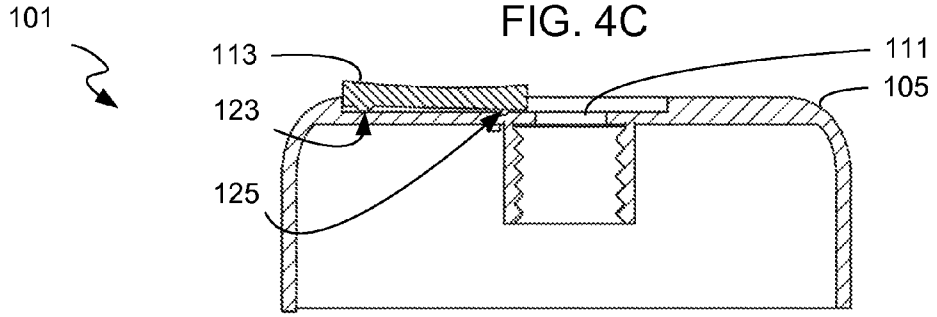


FIG. 4D

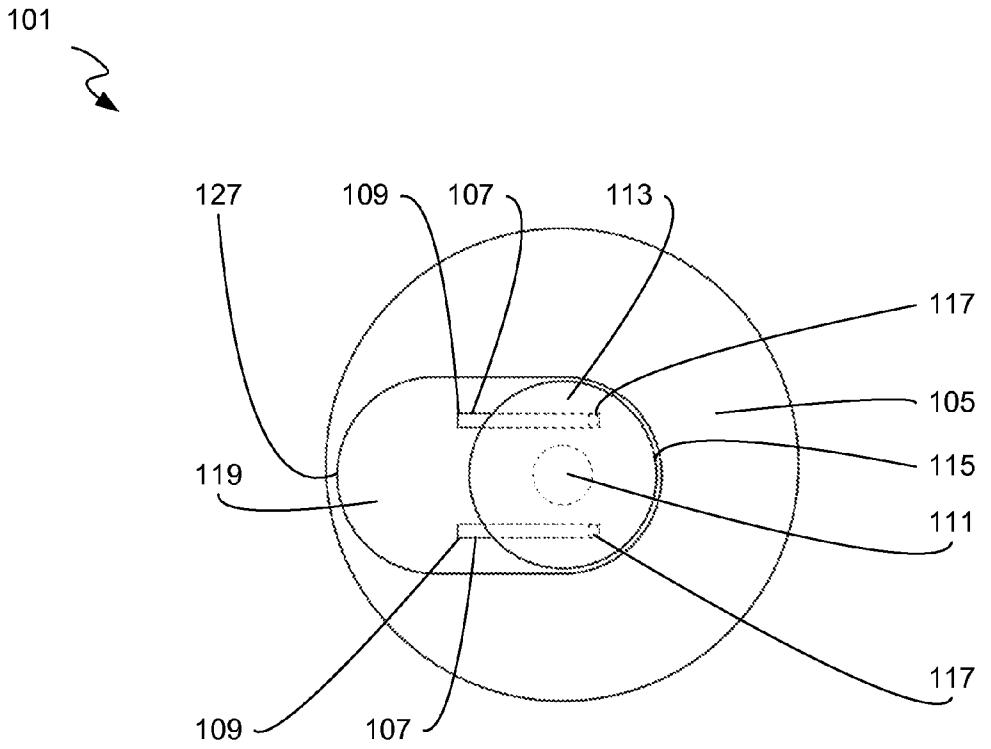

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FIG. 5A

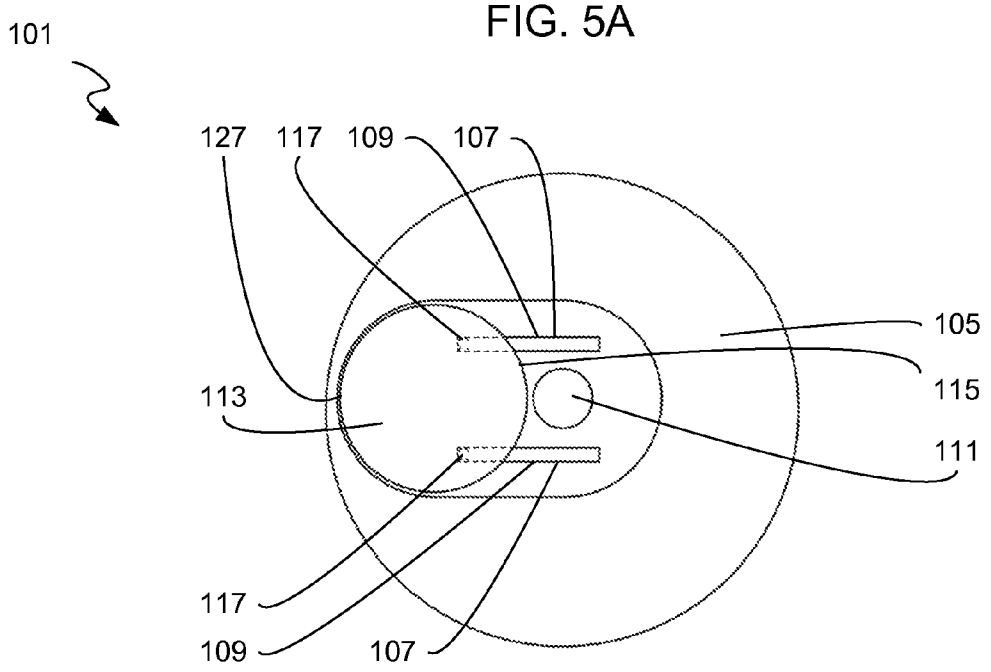
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FIG. 5B

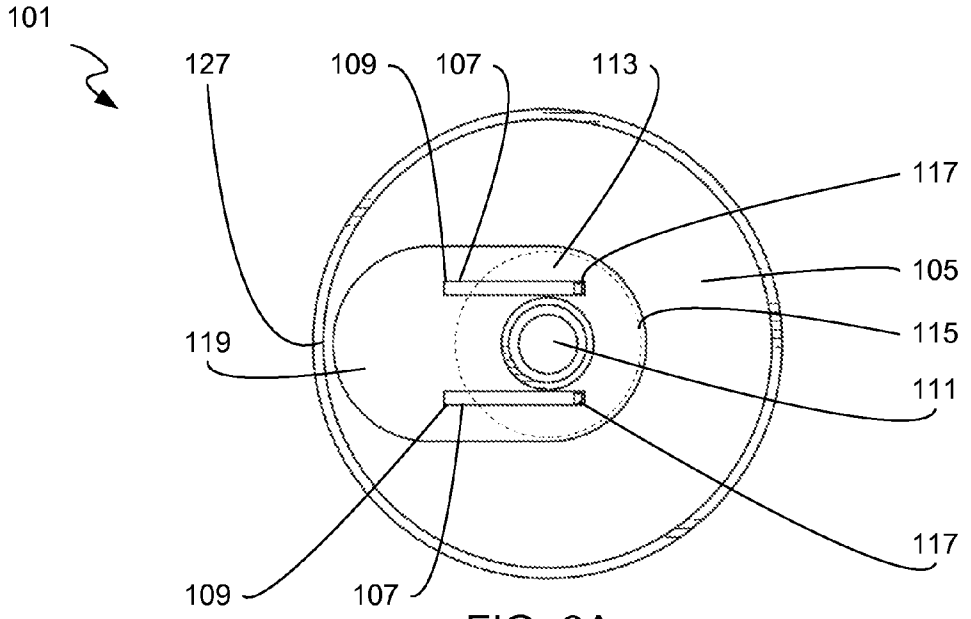
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FIG. 6A

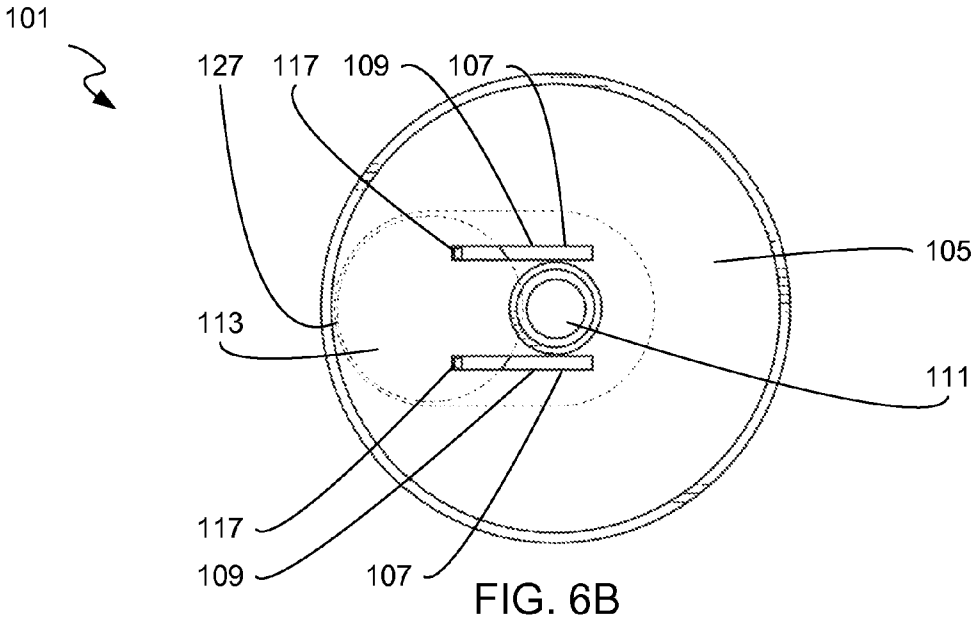
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FIG. 6B

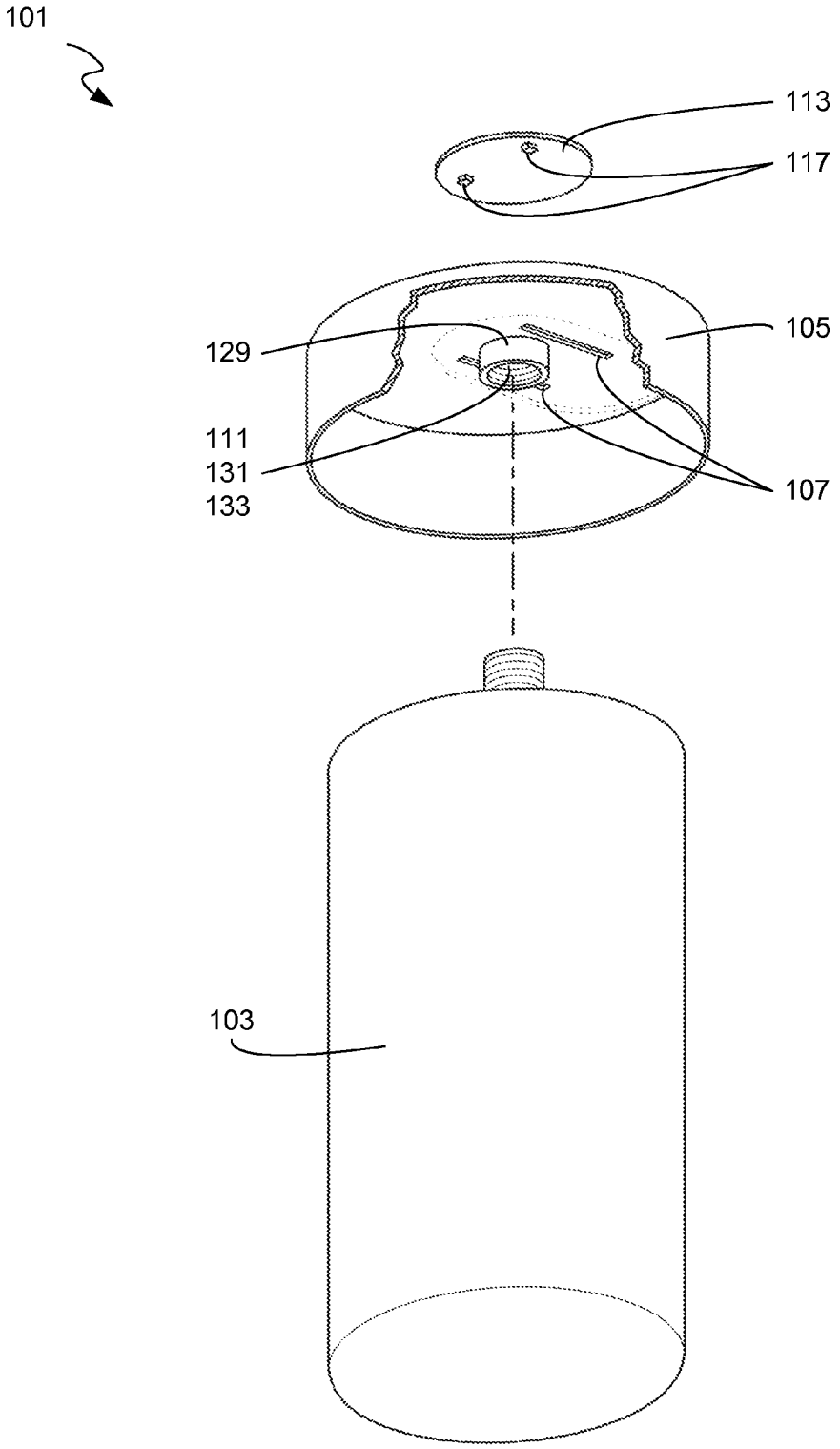

FIG. 7

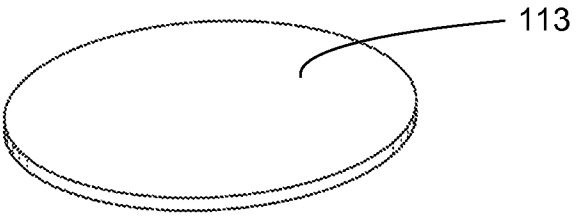

FIG. 8A

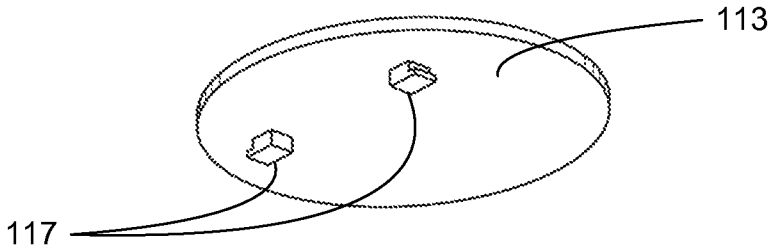

FIG. 8B

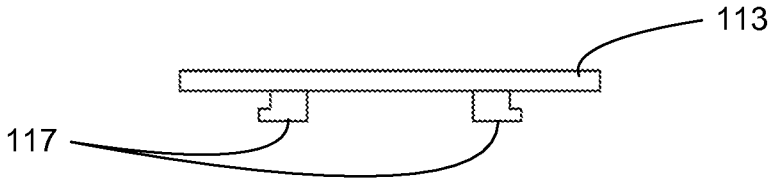

FIG. 8C

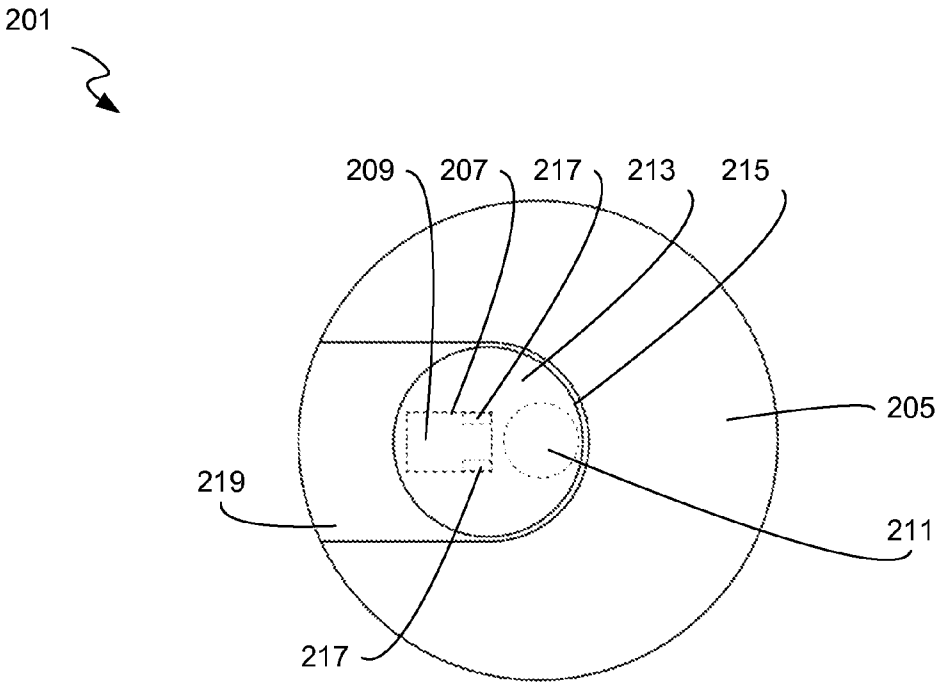
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FIG. 9A

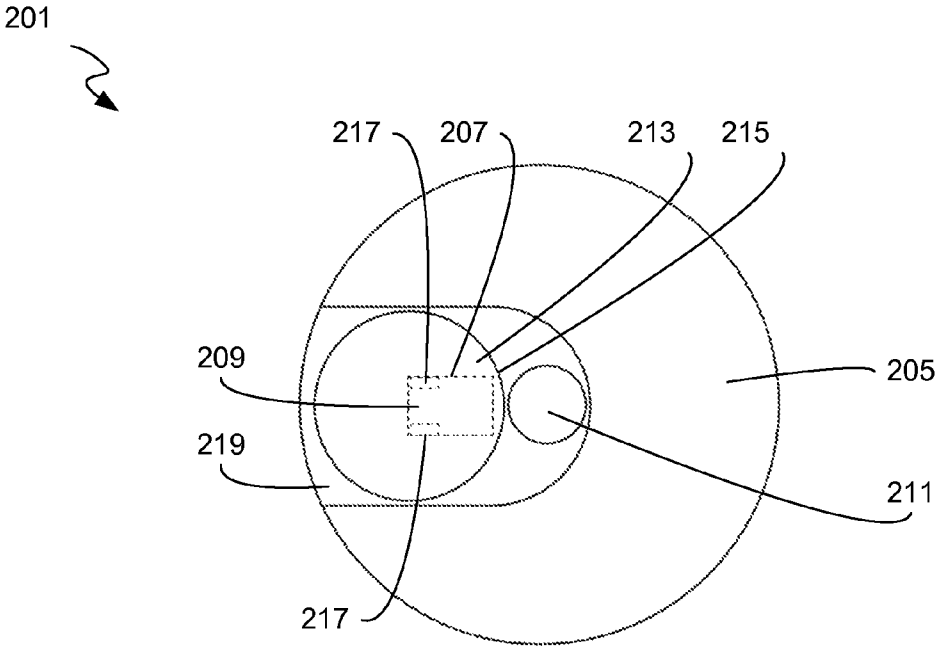
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FIG. 9B

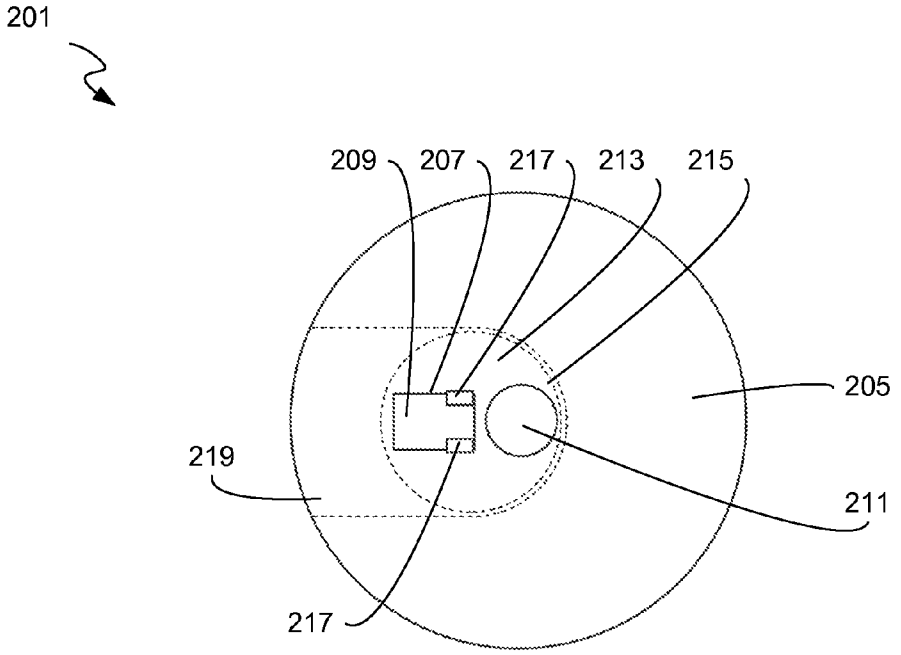

FIG. 10A

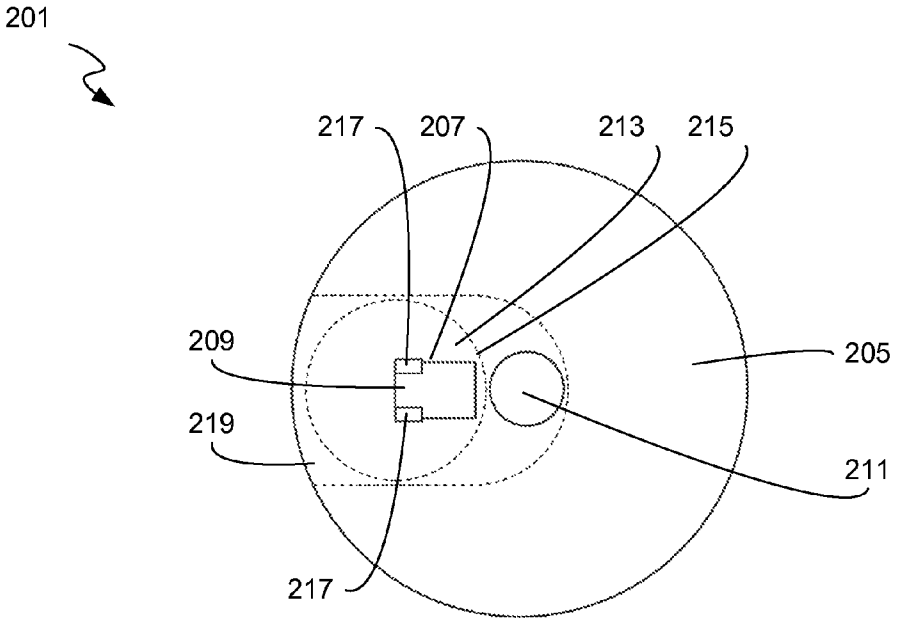

FIG. 10B

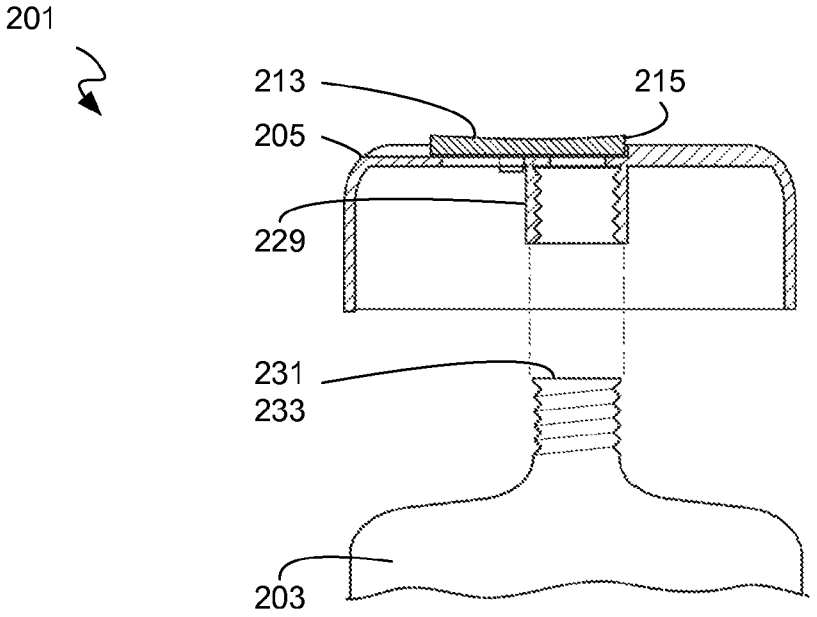

FIG. 11

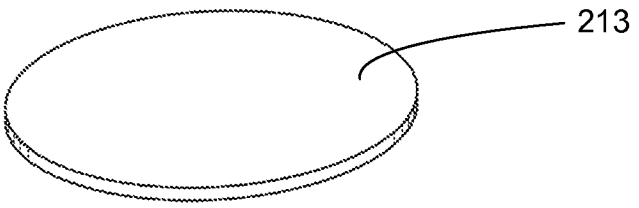

FIG. 12A

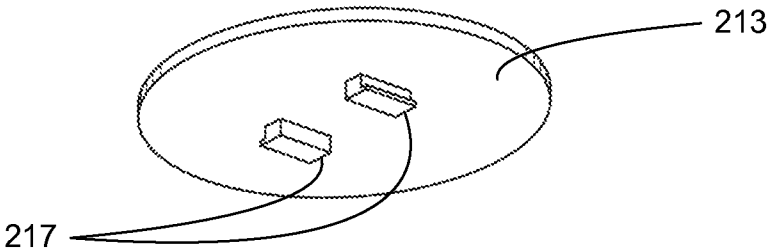

FIG. 12B

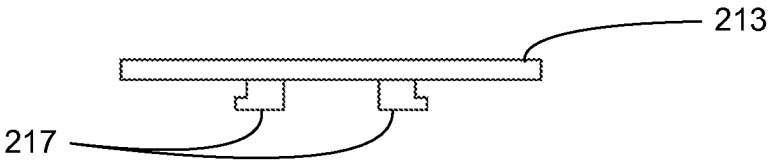

FIG. 12C

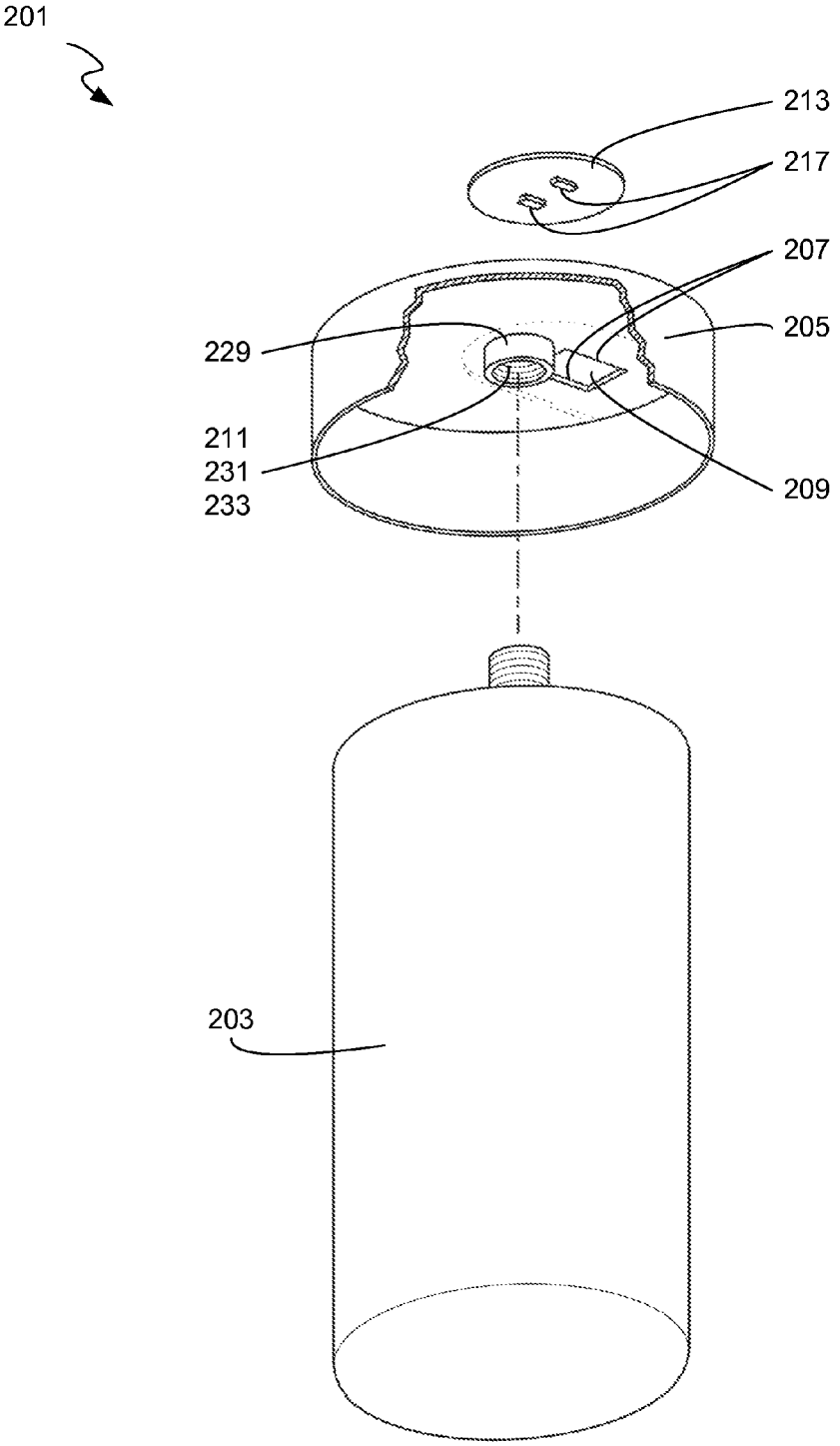

FIG. 13

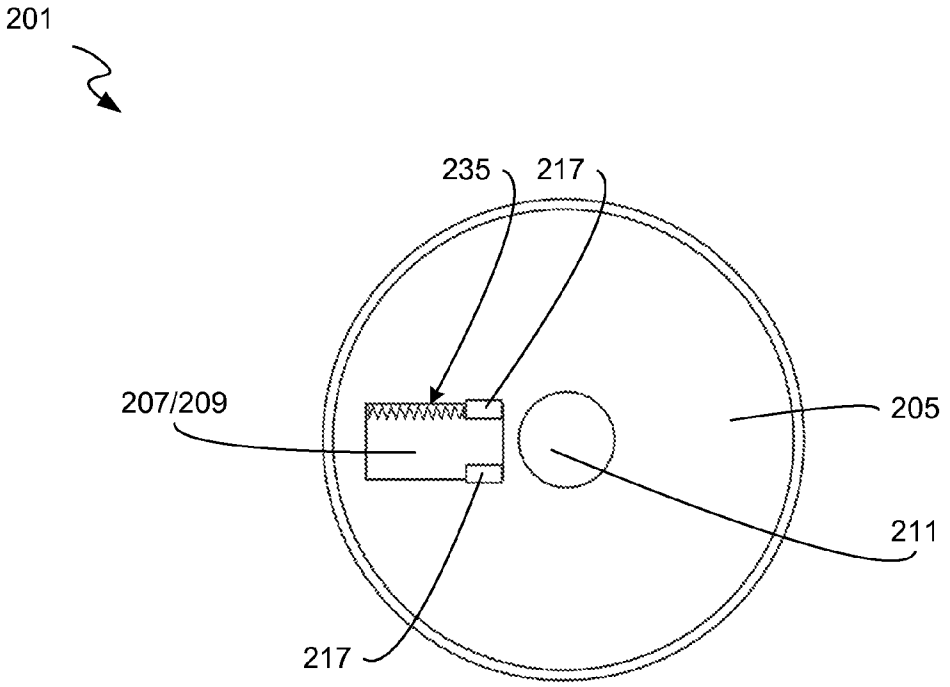

FIG. 14A

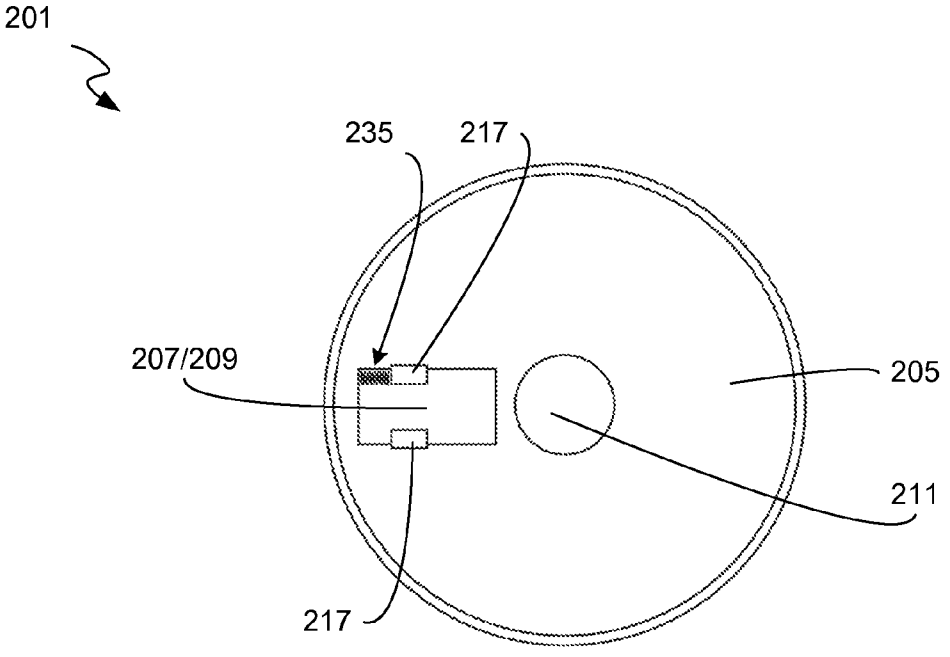

FIG. 14B

SLIDING CAP AND TUBE

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application claims the benefit of U.S. Provisional Application No. 61/975,719, entitled "Slide It", filed Apr. 4, 2014, the entire disclosure of which is incorporated herein by reference.

BACKGROUND

[0002] Containers such as a tube of toothpaste, cream, gel, lotion, ointment, or other substance often include a re-sealable screw-cap or flip-top lid. Generally, re-sealable screw-cap and flip-top lids require both hands for opening and/or closing the container. Having the requisite manual dexterity for effectively handling these types of lids can be challenging for children, the elderly, anyone who is multi-tasking, or anyone who has only one hand available at a time. People (nurses, mothers, etc.) may also find it difficult to handle conventional caps when concurrently handling other things. In addition, with lost screw-caps or unlocked flip-top lids, the substance may inadvertently escape from the container, which is both wasteful and messy.

SUMMARY

[0003] In general, in one aspect, the present disclosure relates to a system for dispensing, including: a base member having a dispenser opening and at least one track opening, wherein the at least one track opening includes at least one track, and the dispenser opening is adjacent to the at least one track opening and at least one track, and is operable to allow a flow of a fluid composition; and a sliding member including a blade with at least one track member, wherein the at least one track member is operable to secure the sliding member with the at least one track of the base member, and the at least one track member is operable to allow the sliding member to travel along the at least one track and the blade to cover or uncover the dispenser opening.

[0004] In general, in one aspect, the present disclosure relates to a system for dispensing, including a base member having a dispenser opening and a track, wherein the dispenser opening is adjacent to the track and is operable to allow a flow of a fluid composition; and a sliding member including a blade and a track member, wherein the track member is operable to secure the sliding member with the track of the base member, and the track member is operable to allow the sliding member to travel along the track and the blade to cover or uncover the dispenser opening.

[0005] In general, in one aspect, the present disclosure relates to a system for dispensing, including a base member having a dispenser opening and a track, wherein the dispenser opening is adjacent to the track and is operable to allow a flow of a fluid composition; and a sliding member including a blade and a track member, wherein the track member is operable to secure the sliding member with the track of the base member, and the track member is operable to allow the sliding member to travel along the track and the blade to cover or uncover the dispenser opening; and a container operable to store a fluid composition, wherein the container is coupled with the base member.

[0006] Other aspects of embodiment of the invention will be apparent from the following description and the appended claims.

BRIEF DESCRIPTION OF THE DRAWINGS

[0007] Embodiments of the present invention are illustrated by way of example, and not by way of limitation, in the figures of the accompanying drawings and in which like reference numerals refer to similar elements.

[0008] FIGS. **1**A and **1**B illustrate perspective views of a dispensing device, in accordance with one or more embodiments.

[0009] FIGS. **2**A and **2**B illustrate perspective views of track mechanisms for a dispensing device, in accordance with one or more embodiments.

[0010] FIGS. **3**AA, **3**A, **3**B, and **3**C illustrate cut-away side views of a dispensing device, in accordance with one or more embodiments.

[0011] FIGS. **4**A, **4**B, **4**C, and **4**D illustrate cut-away side views of a dispensing device, in accordance with one or more embodiments.

[0012] FIGS. **5**A and **5**B illustrate a top view of a dispensing device, in accordance with one or more embodiments.

[0013] FIGS. **6**A and **6**B illustrate a bottom view of a dispensing device, in accordance with one or more embodiments.

[0014] FIG. **7** illustrates an exploded perspective view of a dispensing device, in accordance with one or more embodiments.

[0015] FIGS. **8**A, **8**B, and **8**C illustrate top, bottom, and side views, respectively, of a sliding member, blade, and track member, in accordance with one or more embodiments.

[0016] FIGS. **9**A and **9**B illustrate a top view of a dispensing device, in accordance with one or more embodiments.

[0017] FIGS. **10**A and **10**B illustrate a bottom view of a dispensing device, in accordance with one or more embodiments.

[0018] FIG. **11** illustrates a side view of a dispensing device, in accordance with one or more embodiments.

[0019] FIGS. **12**A, **12**B, and **12**C illustrate top, bottom, and side views, respectively, of a sliding member, in accordance with one or more embodiments.

[0020] FIG. **13** illustrates an exploded perspective view of a dispensing device, in accordance with one or more embodiments.

[0021] FIGS. **14**A and **14**B illustrate a top view of a dispensing device, in accordance with one or more embodiments.

DETAILED DESCRIPTION

[0022] Reference will now be made in detail to the various embodiments of the present disclosure, examples of which are illustrated in the accompanying drawings. Like elements in the various figures are denoted by like reference numerals for consistency. While described in conjunction with these embodiments, it will be understood that they are not intended to limit the disclosure to these embodiments. On the contrary, the disclosure is intended to cover alternatives, modifications and equivalents, which may be included within the spirit and scope of the disclosure as defined by the appended claims. Furthermore, in the following detailed description of the present disclosure, numerous specific details are set forth in order to provide a thorough understanding of the present disclosure. However, it will be understood that the present disclosure may be practiced without these specific details. In other instances, well-known methods, procedures, compo-

nents, and circuits have not been described in detail so as not to unnecessarily obscure aspects of the present disclosure.

[0023] The present disclosure addresses and solves the current problem of resealable caps or lids that can effectively reseal containers holding a fluid composition. The disclosed device and method includes a sliding member or blade, which effectively causes the fluid composition in a container to be stored without leakage, is easy to use, eliminates mess by sliding extra fluid composition off, closes tightly, and attaches to the container so it cannot be lost. The device can be operated using one hand.

[0024] In general, embodiments provide a device and method for dispensing a fluid composition. These include, for example, a device having a base member with a track or track member and an adjacent dispenser opening to allow a fluid composition to flow. The device also includes a sliding member having a blade and a track member or track, which secures the sliding member to the base member of the device. The sliding member can travel along the track and/or track member, which allows the blade to cover or uncover the dispenser opening. The sliding member and/or blade may also sever a portion of dispensed fluid composition from a portion of contained fluid composition when the sliding member and/or blade travels to cover the dispenser opening. The device can cost less, more convenient, and save time as compared to conventional devices.

[0025] As used herein, it is understood that a "fluid composition," "composition," substance, or product is intended to mean semi-liquid and/or semi-solid materials which are flowable under pressure and/or by force. For example, such fluid compositions include but are not limited to creams, gels, lotions, ointments, pastes, toothpastes, and the like.

[0026] As used herein, a "container" includes but is not limited to bottles, tubes, cylinders, and the like, as well as any other holding device for containing a fluid composition as known by those of skill in the art. The container can be formed as a single unit, formed integrally with the base member, or formed from multiple pieces of material, and can be made of a variety of natural and/or synthetic materials. For example, the body of the container can be formed by a film of woven or unwoven natural and/or synthetic material, which can be liquid and gas impermeable so that the fluid composition is retained in the container.

[0027] As shown in FIGS. **1**A and **1**B, the device **101** can be coupled with a container **103** operable to hold a fluid composition to be dispensed. The device **101** can be of any size or shape and can be made of any materials including but not limited to one or more polymers, metals, ceramic, or composite materials.

[0028] In one or more embodiments, the device **101** includes a base member **105**, having a track **107**, track opening **109**, and a dispenser opening **111**. In one or more embodiments, the track **107** can be a single track with one track opening **109**, a double track with two track openings, or multiple tracks with multiple track openings. In one or more embodiments, the track **107** is a double track, in which each track is substantially parallel to each other.

[0029] In one or more embodiments, the dispenser opening **111** can be adjacent to and located in-between the track **107** and track opening **109**, and which allows the flow of the fluid composition through the base member **105**. The dispenser opening **111** can be of any size or shape, including but not limited to circular, semi-circular, shapes with rounded edges, square, rectangular, or triangular shapes.

[0030] In one or more embodiments, the dispenser opening **111** can also include a valve operable to regulate a flow of the fluid composition. A force or pressure on the valve by the fluid composition (e.g., created by a squeezing of a container holding the fluid composition) may cause the valve to open and allow a flow of the fluid composition. Conversely, in the absence of a force or pressure on the valve, the valve may stay in or go into a closed position and thereby impede a flow of the fluid composition. In one or more embodiments, the valve may be a silicone slit valve, where a sheet of silicone includes slits that define collapsible silicone sheet members operable to allow or impede a flow of the fluid composition.

[0031] In one or more embodiments, the device **101** also includes a sliding member **113** having a blade **115** with one or more track members **117**. FIG. **1**A illustrates the blade **115** with two track members **117**. The track members **117** can be located underneath the sliding member **113** near the end of the blade **115**, or the track members **117** can run underneath the length of the blade **115** for sliding in the track **107** of the base member **105**. The blade **115** and track members **117** can be integrally formed with sliding member **113**, or can be separately joined together to form the sliding member **113**. The blade **115** and track members **117** can be of any size or shape and can be made of any materials including but not limited to one or more polymers, metals, ceramic, or composite materials.

[0032] In one or more embodiments, the base member **105** insulates, separates, and/or protects the track **107** from the fluid composition. As a result, for example, the fluid composition cannot affect or degrade the sliding operation of the track **107** and track members **117**.

[0033] In yet other embodiments, the track **107** includes other track mechanisms. For example, instead of including a track opening, the base member may include one or more dovetail tracks. In addition, the sliding member may include one or more dovetail track members operable to couple with dovetail tracks of the base member. FIGS. **2**A and **2**B illustrate embodiments of the dovetail track mechanism. As shown in FIG. **2**A, the sliding member **113** includes a track **107** in which the track member **117** of the base member **105** travels. Alternatively, in FIG. **2**B, the base member **105** includes a track **107** in which the track member **117** of the sliding member **113** travels. Various track positions are possible. For example, the dovetail tracks of the sliding member and base member may be positioned similarly to the corresponding track locations depicted in FIGS. **5**A and **5**B (two dovetail tracks flanking the dispenser opening) or similarly to the corresponding track location depicted in FIGS. **9**A and **9**B but with simply one dovetail track.

[0034] In one or more embodiments, the sliding member **113** can be secured with the base member **105** when the sliding member is covering (FIG. **1**A) or uncovering (FIG. **1**B) the dispenser opening **111**. That is, the track member(s) **117** of the sliding member **113** secure the sliding member with the track **107** of the base member **105**. In addition, the track members **117** allow the sliding member **113** to travel along the track **107** and the blade **115** to cover or uncover the dispenser opening **111** for dispensing the fluid composition. Thus, the sliding member **113** (e.g., the blade **115**) allows the flow of the fluid composition when in an uncovered position (e.g., FIG. **1**B), and blocks the flow of the fluid composition when in a covered position (e.g., FIG. **1**A).

[0035] In one or more embodiments, the base member **105** includes an offset region **119**, where the track **107** and dis-

penser opening **111** are located. The sliding member **113** may also travel along the track **107** within the offset region **119**. Because the sliding member **113** may be flush with or within the most elevated portion(s) of the base member **105**, the device **101** may be operable to balance when placed on a surface (e.g., a desk), even when an elongated container (e.g., the container **103**) is coupled thereto. The offset region **119** can be of any size or shape that holds the track **107** and dispenser opening **111**. For example, the offset region **119** can be circular, semi-circular, oval, elliptical, square, rectangular, and the like.

[0036] In one or more embodiments, the track **107** can be oriented at a downward angle relative to the device **101** or base member **105**, such that the sliding member **113** travels along the track **107** at the downward angle, and the blade **115** covers the dispenser opening **111** at the downward angle. The downward angle of the track **107** causes the blade **115** to be pressed down against the base member **105** of the device **101** when the blade covers the dispenser opening **111**, thus achieving a tight closure. The downward angle, for example, can be −1 to −10 degrees, −1 to −5 degrees, or −1 to −2 degrees relative to the device **101** or base member **105**.

[0037] In one or more embodiments, the sliding member **113** also includes a finger-groove or finger-pad **121** to assist in moving the sliding member **113** along the track **107**. For example, the finger-groove or finger-pad **121** can cause the sliding member **113** to travel along the track **107** in response to an applied pressure (e.g., applied by a finger of a user). As a result, the sliding member **113** can be moved between open and closed positions. The finger-groove or finger-pad **121** can be used by any finger or thumb of a user. The finger-groove or finger-pad **121** may be located anywhere along the length of the sliding member **113**, for example, the finger-groove or finger-pad **121** may be attached at either end or in the middle of the sliding member **113**. In one or more embodiments, the finger-groove or finger-pad **121** is or is part of the blade **115**.

[0038] In one or more embodiments, the base member **105** also includes a back-piece **127** operable to stop the sliding member **113** or blade **115** when the dispenser opening **111** is uncovered by the sliding member or blade. The back-piece **127** can be made of the same material as the base member **105**.

[0039] FIG. **3**AA illustrates an exploded side view of the device **101** separated from the container **103**.

[0040] In one or more embodiments, the device **101** also includes a receiver **129**. In one or more embodiments, the receiver **129** is operable to be coupled with a container **103**. For example, the receiver **129** may include threads, which secure the base member **105** to the container **103** (e.g., similar to a screw-top lid interface). Other mechanisms for coupling the receiver **129** with the base member **105** may include, for example, a crimp-on or clip-on mechanism as known in the art.

[0041] In one or more embodiments, the receiver **129** includes a channel **131** there through, with a channel opening **133** that is aligned with the dispenser opening **111** of the base member **105**, and which allows the flow of the fluid composition through the device **101**.

[0042] FIGS. **3**A, **3**B, and **3**C illustrate cut-away side views of the device **101** with cross-sectional views A-A, B-B, and C-C, respectively, as illustrated in FIGS. **1**A and **1**B.

[0043] FIG. **3**A illustrates the A-A view of FIG. **1**A, in which the base member **105** is secured to the receiver **129**, and the sliding member **113** or blade **115** covers the dispenser opening **111** of the base member **105**, and the channel **131** and channel opening **133** of the receiver **129**.

[0044] FIG. **3**B illustrates the B-B view of FIG. **1**B, in which the base member **105** is secured to the receiver **129**, and the sliding member **113** or blade **115** uncovers the dispenser opening **111** of the base member, and the channel **131** and channel opening **133** of the receiver **129**.

[0045] FIG. **3**C illustrates the C-C view of FIG. **1**A, in which the base member **105** is secured to the receiver **129**, and the sliding member **113** or blade **115** covers the dispenser opening **111** of the base member, and the channel **131** and channel opening **133** of the receiver **129**. Also shown are the two track members **117** attached to the sliding member **113** or blade **115** in the track **107** of the base member **105**.

[0046] As shown in FIGS. **3**AA, **3**A, **3**B, and **3**C, the base member **105** may insulate, separate, and/or protect the track **107** from the fluid composition. As a result, for example, the fluid composition cannot affect or degrade the sliding operation of the track **107** and track members **117**.

[0047] In one or more embodiments, the base member **105** of the device **101** includes a dimple **123** operable to secure the sliding member **113** when the sliding member is in a covering or uncovering position with respect to the base member **105** and the dispenser opening **111**. For example, in FIGS. **4**A-**4**D the base member **105** may include a dimple **123** and the sliding member **113** may include a nub **125**. The dimple **123** on the base member **105** and nub **125** on the sliding member **113** can be located so that they cooperate to secure the dispenser opening **111** in an uncovered position (FIGS. **4**A-**4**B). Alternatively, the dimple **123** on base member **105** and nub **123** on the sliding member **113** can be located so that they cooperate to secure the dispenser opening **111** in covered position (FIGS. **4**C-**4**D). In another example, the base member **105** includes the nub **125** and the sliding member **113** includes the dimple **123**.

[0048] In addition to the perspective views of the device **101** shown in FIGS. **1**A and **1**B, the device **101** is also shown in the top views of FIGS. **5**A and **5**B and the bottom views of FIGS. **6**A and **6**B. As shown in these figures, the sliding member **113** can be secured with the base member **105** when the sliding member is covering (FIGS. **5**A and **6**A) or uncovering (FIGS. **5**B and **6**B) the dispenser opening **111**.

[0049] FIG. **7** illustrates a bottom exploded perspective view of device **101**. The threaded top of the container **103** is shown in alignment with the receiver **129**, channel opening **133**, channel **131** and dispenser opening **111** of the base member **105**. The offset region **119** of the base member **105** includes track opening **109** and track **107**. Shown above the base member **105**, is the sliding member **113**, blade **115**, and track members **117**, which travel in the track **107** of the base member **105**.

[0050] FIGS. **8**A-**8**C illustrate top, bottom and side views, respectively, of the sliding member **113**, blade **115**, and track members **117**.

[0051] In another embodiment as shown in top and bottom views of FIGS. **9**A-**9**B and FIGS. **10**A-**10**B, a device **201** for dispensing a fluid composition includes a base member **205** having a single track opening **209** and a dispenser opening **211**. Also shown is the offset region **219** in the base member **205**, sliding member **213**, blade **215**, and track members **217**.

[0052] In one or more embodiments, the dispenser opening **211** can be adjacent to the track **207** and track opening **209**, and allows the flow of the fluid composition through the base member **205**. The dispenser opening **211** can be of any size or

shape, including but not limited to circular, semi-circular, shapes with rounded edges, square, rectangular, or triangular shapes.

[0053] In one or more embodiments, the device **201** includes a sliding member **213** having a blade **215** with one or more track members **217**. The two track members **217** can be located underneath the sliding member **213** near the end of the blade **215**, or the two track members **217** can run underneath the length of the blade **215** for sliding in the track **207** of the base member **205**. The blade **215** and two track members **217** can be integrally formed with sliding member **213**, or can be separately joined together to form the sliding member **213**. The blade **215** and two track members **217** can be of any size or shape and can be made of any materials including but not limited to one or more polymers, metals, ceramic, or composite materials.

[0054] In one or more embodiments, the sliding member **213** can be secured with the base member **205** when the sliding member is covering (FIGS. **9**A and **10**A) or uncovering (FIGS. **9**B and **10**B) the dispenser opening **211**. That is, the two track members **217** of the sliding member **213** secure the sliding member with the track **207** of the base member **205**. In addition, the two track members **217** allow the sliding member **213** to travel along the track **207** and the blade **215** to cover or uncover the dispenser opening **211** for dispensing the fluid composition. Thus, the sliding member **213** (e.g., the blade **215**) allows the flow of the fluid composition when in an uncovered position (e.g., FIGS. **9**B and **10**B), and blocks the flow of the fluid composition when in a covered position (e.g., FIGS. **9**A and **10**A).

[0055] In one or more embodiments, the base member **205** includes offset region **219** where the track **207** and dispenser opening **211** are located as described herein.

[0056] In one or more embodiments, the track **207** can be oriented at a downward angle relative to the device **201** or base member **205**, such that the sliding member **213** travels along the track at the downward angle, and the blade **215** covers the dispenser opening **211** at the downward angle as described herein.

[0057] In one or more embodiments, the sliding member **213** also includes a finger-groove or finger-pad **221** to assist in moving the sliding member **213** along the track **207** as described herein.

[0058] In one or more embodiments, the base member **205** also includes a back-piece **227** operable to stop the sliding member **213** or blade **215** when the dispenser opening **211** is uncovered by the sliding member or blade.

[0059] In one or more embodiments, the base member **205** of the device **201** includes a dimple **223** and a nub **225**, operable to secure the sliding member **213** when the sliding member is in a covering or uncovering position with respect to the base member **205** and the dispenser opening **211** as described herein.

[0060] In one or more embodiments, the device **201** also includes a receiver **229** operable to be coupled with a container **203** as described herein.

[0061] In one or more embodiments, the base member **205** insulates, separates, and/or protects the track **207** from the fluid composition. As a result, for example, the fluid composition cannot affect or degrade the sliding operation of the track **207** and track members **217**.

[0062] In one or more embodiments, the dispenser opening **211** can also include a valve operable to regulate a flow of the fluid composition as described herein.

[0063] FIG. **11** illustrates an exploded side view of the device **201** separated from the container **203**. In one or more embodiments, the device **201** also includes a receiver **229**. In one or more embodiments, the receiver **229** is operable to be coupled with a container **203**. For example, the receiver **229** may include threads, which secure the base member **205** to the container **203** (e.g., similar to a screw-top lid interface). Other mechanisms for coupling the receiver **229** to the base member **205** may include, for example, a crimp-on or clip-on mechanism as known in the art.

[0064] FIGS. **12**A, **12**B, and **12**C illustrate top, bottom and side views, respectively, of a sliding member **213**, blade **215**, and track member **217**, in accordance with one or more embodiments.

[0065] FIG. **13** illustrates a bottom exploded perspective view of device **201**. The threaded top of the container **203** is shown in alignment with the receiver **229**, channel opening **233**, channel **231** and dispenser opening **211** of the base member **205**. The offset region **219** of the base member **205** includes track opening **209** and track **207**. Shown above the base member **205**, is the sliding member **213**, blade **215**, and track members **217**, which travel in the track **207** of the base member **205**.

[0066] In one or more embodiments, the device for dispensing can include at least one spring, where the sliding member and/or the sliding blade can be attached. As a result, the sliding member or blade may be "spring-loaded" to tightly cover the dispenser opening of the base member. Further, the spring may cause the sliding member or blade to automatically return to a covering position after a force causing the sliding member or blade into an uncovering position is released (e.g., by a user).

[0067] FIGS. **14**A and **14**B illustrate a bottom view of device **201**, in which a spring **235** is attached to the back of the track **207** and one of the track members **217** of the sliding member **213** or blade **215**. In FIG. **14**A, the spring **235** is shown as being extended, which applies force on the sliding member **213** to keep the dispenser opening **211** covered. Conversely, in FIG. **14**B, the spring **235** is shown as being compressed, in which the sliding member **213** is in position for opening the dispenser opening **211**.

[0068] The at least one spring can be coupled with the sliding member or blade on one end, and with the base member on the other end, so that the spring pulls on the sliding member or blade to keep it in a covered position. Alternatively, the at least one spring can be coupled with the base member on one end, and with the sliding member or blade on the other end, so that the spring pushes on the sliding member or blade to keep it in a covered position. Any type of spring can be used including but not limited to a coil or helical spring, compression spring, expansion spring, torsion spring, and the like.

[0069] Still other aspects, features, and technical effects will be readily apparent to those skilled in this art from the following detailed description, wherein preferred embodiments are shown and described, simply by way of illustration of the best mode contemplated. The disclosure is capable of other and different embodiments, and its several details are capable of modifications in various obvious respects. Accordingly, the drawings and description are to be regarded as illustrative in nature, and not as restrictive.

[0070] In the preceding description, the present disclosure is described with reference to specifically exemplary embodiments thereof. It will, however, be evident that various modi-

fications and changes may be made thereto without departing from the broader spirit and scope of the present disclosure, as set forth in the claims. The specification and drawings are, accordingly, to be regarded as illustrative and not as restrictive. It is understood that the present disclosure is capable of using various other combinations and embodiments and is capable of any changes or modifications within the scope of the inventive concept as expressed herein.

What is claimed is:

1. A device for dispensing, comprising:

a base member having a dispenser opening and at least one track opening, wherein:

the at least one track opening comprises at least one track, and

the dispenser opening is adjacent to the at least one track opening and the at least one track, and is operable to allow a flow of a fluid composition; and

a sliding member comprising a blade with at least one track member, wherein:

the at least one track member is operable to secure the sliding member with the at least one track of the base member, and

the at least one track member is operable to allow the sliding member to travel along the at least one track and the blade to cover or uncover the dispenser opening.

2. The device of claim **1**, wherein:

the base member comprises one track opening, and the one track opening comprises one track; and

the sliding member comprises a blade with one track member, wherein:

the one track member is operable to secure the sliding member with the track of the base member, and

the one track member is operable to allow the sliding member to travel along the one track and the blade to cover or uncover the dispenser opening.

3. The device of claim **1**, wherein:

the base member comprises two track openings, and the two track openings comprise two parallel tracks; and

the sliding member comprises a blade with two track members, wherein:

the two track members are operable to secure the sliding member with the two parallel tracks of the base member, and

the two track members are operable to allow the sliding member to travel along the two parallel tracks and the blade to cover or uncover the dispenser opening.

4. The device of claim **1**, wherein the base member further comprises an offset region, wherein the at least one track opening and the dispenser opening are located in the offset region, and wherein the sliding member is operable to travel within the offset region.

5. The device of claim **1**, wherein the base member is operable to secure the sliding member when the sliding member is covering or uncovering the dispenser opening.

6. The device of claim **1**, wherein the dispenser opening is a circular, semi-circular, square, rectangular, or triangular opening.

7. The device of claim **1**, wherein the at least one track member is oriented at a downward angle with respect to the sliding member such that the sliding member travels along the at least one track at the downward angle, and the blade covers the dispenser opening at the downward angle.

8. The device of claim **1**, wherein the blade and the at least one track member are integrally formed by the sliding member.

9. The device of claim **1**, wherein the sliding member further comprises a finger-groove or finger-pad to assist in moving the sliding member along the at least one track.

10. The device of claim **1**, wherein the base member further comprises a receiver operable to be coupled with a container.

11. The device of claim **10**, wherein the receiver comprises a channel opening, wherein the channel opening is aligned with the dispenser opening of the base member.

12. A device for dispensing, comprising:

a base member having a dispenser opening and a track, wherein:

the dispenser opening is adjacent to the track and is operable to allow a flow of a fluid composition; and

a sliding member comprising a blade and a track member, wherein:

the track member is operable to secure the sliding member with the track of the base member, and

the track member is operable to allow the sliding member to travel along the track and the blade to cover or uncover the dispenser opening.

13. The device of claim **12**, wherein the sliding member comprises two track members, wherein:

the two track members are operable to secure the sliding member with the track of the base member, and

the two track members are operable to allow the sliding member to travel along the track and the blade to cover or uncover the dispenser opening.

14. The device of claim **12**, wherein the base member further comprises an offset region, wherein the track and the dispenser opening are located in the offset region, and wherein the sliding member is operable to travel within the offset region.

15. The device of claim **12**, wherein the base member further comprises a receiver operable to be coupled with a container.

16. The device of claim **15**, wherein the track and the track member are complementary dovetail tracks.

17. A device for dispensing, comprising:

a base member having a dispenser opening and a track, wherein the dispenser opening is adjacent to the track and is operable to allow a flow of a fluid composition;

a sliding member comprising a blade and a track member, wherein:

the track member is operable to secure the sliding member with the track of the base member, and

the track member is operable to allow the sliding member to travel along the track and the blade to cover or uncover the dispenser opening; and

a container operable to store a fluid composition, wherein the container is coupled with the base member.

18. The device of claim **17**, wherein the base member further comprises a receiver operable to be coupled with the container.

19. The device of claim **18**, wherein the receiver comprises a channel opening, wherein the channel opening is aligned with the dispenser opening of the base member.

20. The device of claim **17**, wherein the base member and the container are integrally formed.

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