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(54) **CREAM TYPE COSMETIC CONTAINER**

BEHÄLTER FÜR CREMEARTIGES KOSMETIKUM

RÉCIPIENT POUR PRODUIT COSMÉTIQUE DE TYPE CRÈME

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(56) References cited:
EP-A2- 0 600 286 EP-A2- 0 810 160
WO-A2-2010/050772 JP-A- 2006 315 745
KR-A- 20070 014 884 KR-A- 20120 138 690
KR-A- 20130 013 135 KR-B1- 101 028 988
US-A- 3 361 305 US-A- 5 000 355

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Description

BACKGROUND OF THE INVENTION

[0001] The present invention disclosed herein relates to a cream-type cosmetic container, and more particularly, to a cream-type cosmetic container, which can easily discharge a highly viscous content without a separate pumping member by allowing a button part to downwardly move and then return to an original location and thus changing the internal pressure of the container body when a user pressurizes the button part, and thus can save the assembling time and the manufacturing cost.

[0002] Generally, cream-type cosmetic containers storing highly viscous cream are configured to interrupt a contact between air and the content contained in the cosmetic containers. An exemplary vacuum-type cosmetic container is disclosed in Korean Utility Model No. 20-0311503 filed and owned by the present applicant.

[0003] This utility model discloses a dispenser container including a container part 10 storing contents, a dispenser 100 coupled to an upper end of the container part 10. The dispenser 100 includes a cylinder 20 coupled to the upper end of the container part 10, a valve body 30 disposed at an intake hole 22 of the cylinder 20, a button 40 disposed at the cylinder 20 so as to perform repetitive pumping and including a tray part 42 extended so as to cover an upper part of the container part 10 at an upper end thereof, and a piston 50 disposed between an inner wall surface of the cylinder 20 and a lower end portion of the button 40. Here, the button has a slide hole 44 formed at a central portion thereof in a vertical direction, and the valve body 30 has an upper end thereof upwardly extending and slidably inserted into the slide hole 44 of the button. Also, a cover member 60 is coupled to the upper end of the valve body 30 to cover the slide hole 44 of the button 40. Thus, when the button 40 is pushed, the button 40 descends along an outer circumferential surface of the valve body 30, generating a gap between the cover member 60 and the button 40. Contents are discharged through the gap and collect in the tray part 42 of the button 40.

[0004] However, in this utility model, the dispenser 100 including the cylinder 20 having the intake hole 22 at the lower end thereof is coupled to the upper portion of the container part 10 to discharge contents stored in the container part 10. Accordingly, since this utility model has a structure in which pumping is performed through the dispenser 100 having a complicated structure, there is a limitation in that the assembling time and the manufacturing cost for installing the dispenser 100 increase.

[0005] US 5 000 355 A, US 3 361 305 A and JP 2 006 315 745 disclose dispensers with a lateral liquid outlet. US 5,000,355 which is considered as being the closest prior of the invention discloses all features of claim 1 besides the vertically in-line location of the content inlet hole and the content outlet hole. EP 0 810 160 A2 and EP 0 600 286 A2 disclose dispensers with a ring-like button-

ring and a central outlet opening. KR 10 2007 0014884 discloses a container with a central button.

SUMMARY OF THE INVENTION

[0006] The present invention provides a cream-type cosmetic container, which can easily discharge a highly viscous content without a separate pumping member by allowing a button part to downwardly move and then return to an original location and thus changing the internal pressure of the container body when a user pressurizes the button part, and thus can save the assembling time and the manufacturing cost.

[0007] The present invention also provides a cream-type cosmetic container, which can discharge a uniform amount of contents every pumping operation by suctioning and storing a uniform amount of contents in a space defined by a pumping guide cap and a content suctioning part through the content suctioning part, according to claim 1. In embodiments, the pumping guide cap may further include: a coupling part coupled to the upper portion of the container body to fix the pumping guide cap to the container body.

[0008] In other embodiments, the pumping guide cap may further include: a coupling part coupled to the upper portion of the container body to fix the pumping guide cap to the container body.

[0009] In yet other embodiments, the cream-type cosmetic container may further include a closing cap coupled to the upper portion of the container body while covering the pumping guide cap.

BRIEF DESCRIPTION OF THE DRAWINGS

[0010] As described above, the present invention can easily discharge a highly viscous content without a separate pumping member by allowing a button part to downwardly move and then return to an original location and thus changing the internal pressure of the container body when a user pressurizes the button part, and thus can save the assembling time and the manufacturing cost.

[0011] Also, the present invention can discharge a uniform amount of contents every pumping operation by suctioning and storing a uniform amount of contents in a space defined by a pumping guide cap and a content suctioning part through the content suctioning part.

FIG. 1 is an exploded perspective view illustrating a cream-type cosmetic container according to the present invention;

FIG. 2 is an assembled perspective view illustrating the cream-type cosmetic container of Fig. 1;

FIG. 3 is an assembled cross-sectional view of the cream-type cosmetic container of claim 1; and

FIG. 4 is a view illustrating an operational state of the cream-type cosmetic container of claim 1.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0012] Hereinafter, exemplary embodiments of the present invention will be described in detail with reference to the accompanying drawings. The same reference numerals provided in the drawings indicate the same members.

[0013] FIG. 1 is an exploded perspective view illustrating a configuration of a cream-type cosmetic container according to an exemplary embodiment of the present invention. FIG. 2 is an assembled perspective view illustrating a configuration of a cream-type cosmetic container according to an exemplary embodiment of the present invention. FIG. 3 is an assembled cross-sectional view illustrating a configuration of a cream-type cosmetic container according to an exemplary embodiment of the present invention.

[0014] Referring to FIGS. 1 to 3, a cream-type cosmetic container according to an exemplary embodiment of the present invention may include a container body 100, a pumping guide cap 200, a content suctioning part 300, and a closing cap 400.

[0015] The container body 100 may contain contents, and may include a piston 110 rising according to the use of contents stored in the container body 100.

[0016] An air inflow hole 120 may be formed at a lower end portion of the container body 100 to allow air to flow into the container body 100 when the piston

[0017] The pumping guide cap 200 may be coupled to an upper portion of the container body 100 to close an upper opening of the container body 100. The pumping guide cap 200 may include a coupling part 210 coupled to the upper portion of the container body 100 so as to fix the pumping guide cap 200 to the upper portion of the container body 100.

[0018] In the invention the pumping guide cap 200 includes a button part 220 at one side of the upper end thereof. The button part 220 may be elastically deformed according to a pressurization of a user, and may change a pressure of a space defined by the pumping guide cap 200 and the content suctioning part 300 described later to discharge contents out of the content suctioning part 300. When a user pressurizes the upper end portion of the button part 220, the whole of the top surface of the button part 220 may downwardly move. Then, when the pressurization of a user is released, the whole of the top surface of the button part 220 may be restored to the original location, changing the pressure of the space defined by the content suctioning part 300 and the pumping guide cap 200 and thus guiding a pumping operation. Accordingly, the button part 220 is formed of an elastic material so as to enable the elastic deformation according to the pressurization of a user.

[0019] The pumping guide cap 200 has a content outlet hole 230 at the other side of the upper end of the pumping guide cap 220 so as to discharge contents by the pumping operation according to the manipulation of the button

part 220. Also, a first valve member 231 is disposed in the content outlet hole 230 to open/close the content outlet hole 230 according to whether or not the button part 220 is pressurized.

[0020] The content suctioning part 300 may be coupled to a lower portion of the pumping guide cap 200 inside the container body 100, and may suction a uniform amount of contents stored in the container body 100 due to the elastic deformation of the button part 220 of the pumping guide cap 200. The content suctioning part 300 may be spaced from the pumping guide cap 200 thereover by a certain interval so as to suction and store contents stored in the container body 100.

[0021] Also, the content suctioning part 300 has a content inlet hole 310 such that contents stored in the container body 100 flow into the content suctioning part 300. Also, a second valve member 311 is disposed in the content inlet hole 310 to open/close the content inlet hole 310 according to whether or not the button part 220 is pressurized.

[0022] The content suctioning part 300 may suction and store a uniform amount of contents contained in the container body 100, and may be guided so as to discharge a uniform amount of contents upon pumping operation according to the manipulation of the button part 220.

[0023] The closing cap 400 may be coupled to the upper portion of the container body 100 while covering the pumping guide cap 200. The closing cap 400 may prevent a malfunction of the button part 220, and may protect the first valve member 231 from an external shock.

[0024] The closing cap may have a pressurization protrusion 410 formed on an upper end inside the closing cap 400 and pressurizing the upper end of the pumping guide cap 200 to prevent the pumping guide cap 200 from being separated from the container body 100.

[0025] Hereinafter, an operational state of a cream-type cosmetic container according to the present invention will be described with reference to FIG. 4. FIG. 4 is a view illustrating an operational state of a cream-type cosmetic container according to the present invention.

[0026] Referring to FIG. 4, in a cream-type cosmetic container according to the present invention, when a user pressurize the button part 220 formed at one side of the pumping guide cap 200, the button part 220 formed of an elastic material may downwardly move, and thus, contents stored in the space defined by the pumping guide cap 200 and the content suctioning part 300 may be discharged to the upper surface of the pumping guide cap 200 through the content outlet hole 230 formed at the other side of the pumping guide cap 200 due to a pressure generated in the space defined by the pumping guide cap 200 and the content suctioning part 300. In this case, the first valve member 231 closing the content outlet hole 230 may open the content outlet hole by the pressure of contents, and the second valve member 311 may close the content inlet hole so as to allowing contents suctioned into the content suctioning part 300 to be discharged

through the content outlet hole 230.

[0027] When a user depressurizes the button part 220, the button part 220 may be restored and upwardly moved by a self-elastic force. Thus, contents contained in the container body 100 may flow into the content suctioning part 300 by the pressure generated in the space defined by the pumping guide cap 200 and the content suctioning part 300. In this case, the first valve member 231 may close the content outlet hole 230, and the second valve member 311 may open the content inlet hole 310, allowing a uniform amount of contents dischargeable upon next pumping operation to flow into the content suctioning part 300 through the content inflow hole 310.

[0028] As described above, since the present invention is configured to store a uniform amount of contents in the space defined by the pumping guide cap 200 and the content suctioning part 300, it is possible to discharge a uniform amount of contents upon pumping operation according to the manipulation of the button part 220.

[0029] As described above, optimal embodiments have been disclosed in the drawings and the specification. Although specific terms have been used herein, these are only intended to describe the present invention and are not intended to limit the meanings of the terms or to restrict the scope of the present invention as disclosed in the accompanying claims. Therefore, those skilled in the art will appreciate that various modifications and other equivalent embodiments are possible from the above embodiments. Therefore, the scope of the present invention is defined by the accompanying claims.

Claims

1. A cream-type cosmetic container comprising:

a container body (100) containing contents and having a volume reduced according to a use of contents;

a pumping guide cap (200) coupled to an upper portion of the container body (100), elastically deformed according to a pressurization by a user, and discharging contents contained in the container body (100) by a pumping operation;

a content suctioning part (300) disposed inside the container body (100), coupled to a lower portion of the pumping guide cap (200) to form a space for storing contents, and suctioning a uniform amount of contents contained in the container body (100) by an elastic deformation of the pumping guide cap (200) and

wherein the pumping guide cap (200) comprises a button part (220) disposed at one side of an upper end of the pumping guide cap (200), downwardly moved and then restored to an original location according to the pressurization by a user, guiding the pumping operation by changing a pressure of the space defined by the pump-

ing guide cap (200) and the content suctioning part (300), and formed of elastic material, wherein a content outlet hole (230) is provided, located at the other side of the upper end of the pumping guide cap (200) and discharging contents according to an operation of the button part (220),

wherein a first valve member (231) is disposed in the content outlet hole (230) to open/close the content outlet hole (230) according to the pressurization of a user, and

wherein the content suctioning part (300) has a content inlet hole (310) located vertically in-line below the content outlet hole (230) for allowing contents stored in the container body (100) to flow therethrough, and comprises a second valve member (311) disposed in the content inlet hole (310) to open/close the content inlet hole (310) according to the pressurization of the button part (220).

2. The cream-type cosmetic container of claim 2, wherein the pumping guide cap (200) further comprises:

a coupling part (210) coupled to the upper portion of the container body (100) to fix the pumping guide cap (200) to the container body (100).

3. The cream-type cosmetic container of claim 1 or 2, further comprising a closing cap (400) coupled to the upper portion of the container body (100) while covering the pumping guide cap (200).

Patentansprüche

1. Behälter für cremeartiges Kosmetikum, mit:

einem Behälterkörper (100), der einen Inhalt enthält und ein entsprechend dem Verbrauch des Inhalts reduziertes Volumen aufweist;

einer mit einem oberen Bereich des Behälterkörpers (100) gekoppelten Pumpführungskappe (200), die entsprechend einer Druckbeaufschlagung durch einen Benutzer elastisch verformt wird und in dem Behälterkörper (100) enthaltenen Inhalt durch einen Pumpvorgang ausgibt;

einem in dem Behälterkörper (100) angeordneten Inhaltansaugteil (300), das mit einem unteren Bereich der Pumpführungskappe (200) gekoppelt ist, um einen Raum zum Aufnehmen von Inhalt zu bilden, und das eine gleichmäßige Menge des in dem Behälterkörper (100) enthaltenen Inhalts durch eine elastische Verformung der Pumpführungskappe (200) ansaugt, und wobei die Pumpführungskappe (200) ein an ei-

- ner Seite eines oberen Endes der Pumpführungskappe (200) angeordnetes Knopfteil (220) aufweist, das entsprechend der Druckbeaufschlagung durch den Benutzer nach unten bewegt und danach in eine Ursprungsposition zurückgestellt wird, den Pumpvorgang durch die Änderung eines Drucks des durch die Pumpführungskappe (200) und das Inhaltsaugteil (300) definierten Raums führt, und aus elastischem Material gebildet ist, wobei ein Inthaltauslassloch (230) vorgesehen ist, das an der anderen Seite des oberen Endes der Pumpführungskappe (200) angeordnet ist und Inhalt entsprechend einer Betätigung des Knopfteils (220) ausgibt, wobei ein erstes Ventilelement (231) in dem Inthaltauslassloch (230) angeordnet ist, um das Inthaltauslassloch (230) entsprechend der Druckbeaufschlagung durch einen Benutzer zu öffnen/schließen, und wobei das Inthaltaugteil (300) ein Inthaltseinlassloch (310) aufweist, das vertikal in Reihe unter dem Inthaltauslassloch (220) angeordnet ist, um das Hindurchfließen von in dem Behälterkörper (100) enthaltenen Inhalt zu ermöglichen, und ein zweites Ventilelement (311) aufweist, das in dem Inthaltauslassloch (310) angeordnet ist, um das Inthaltseinlassloch (310) entsprechend der Druckbeaufschlagung des Knopfteils (220) zu öffnen/schließen.
2. Behälter für cremeartiges Kosmetikum nach Anspruch 1, bei welchem die Pumpführungskappe (200) ferner aufweist:
- ein Kopplungsteil (210), das mit dem oberen Bereich des Behälterkörpers (100) gekoppelt ist, um die Pumpführungskappe (200) an dem Behälterkörper (100) zu befestigen.
3. Behälter für cremeartiges Kosmetikum nach Anspruch 1 oder 2, ferner mit einer Schließkappe (400), die mit dem oberen Bereich des Behälterkörpers (100) gekoppelt ist, wobei sie die Pumpführungskappe (200) bedeckt.

Revendications

1. Récipient pour produit cosmétique de type crème comprenant:
- un corps de récipient (100) contenant du contenu et ayant un volume réduit selon la consommation du contenu;
- un capuchon de guidage de pompage (200) couplé avec une partie supérieure du corps de récipient (100), élastiquement déformé en fonc-

tion de la pression appliquée par un utilisateur, et déchargeant du contenu contenu dans le corps de récipient (100) par une opération de pompage;

une partie d'aspiration du contenu (300) disposée dans le corps de récipient (100), couplée avec une partie inférieure du capuchon de guidage de pompage (200) pour former un espace pour recevoir du contenu, et aspirant une quantité uniforme du contenu contenu dans le corps de récipient (100) par une déformation élastique du capuchon de guidage de pompage (200), et dans lequel le capuchon de guidage de pompage (200) comprend un élément de bouton (220) disposé sur un côté d'une extrémité supérieure du capuchon de guidage de pompage (200), déplacé vers le bas et rappelé vers une position initiale en fonction de la pression appliquée par un utilisateur, guider l'opération de pompage par changement de la pression de l'espace défini par le capuchon de guidage de pompage (200) et la partie d'aspiration du contenu (300), et formé du matériau élastique, dans lequel une orifice de décharge du contenu (230) est prévue, située sur l'autre côté de l'extrémité supérieure du capuchon de guidage de pompage (200) et déchargeant du contenu en fonction d'une opération dudit élément de bouton (220), dans lequel un premier élément de vanne (231) est disposé dans l'orifice de décharge du contenu (230) pour ouvrir/fermer l'orifice de décharge du contenu (230) en fonction de la pression appliquée par un utilisateur, et dans lequel la partie d'aspiration du contenu (300) présente une orifice d'admission du contenu (310) située verticalement en ligne au-dessous de l'orifice de décharge du contenu (230) pour permettre l'écoulement du contenu reçu dans le corps de récipient (100) à travers cette ouverture, et comprend un deuxième élément de vanne (311) disposé dans l'orifice d'admission du contenu (310) pour ouvrir/fermer l'orifice d'admission du contenu (310) en fonction de la pression appliquée sur l'élément de bouton (220).

2. Récipient pour produit cosmétique de type crème selon la revendication 1, dans lequel le capuchon de guidage de pompage (200) comprend en outre:
- un élément de couplage (210) couplé avec la partie supérieure du corps de récipient (100) pour fixer le capuchon de guidage de pompage (200) au corps de récipient (100).
3. Récipient pour produit cosmétique de type crème selon la revendication 1 ou 2, comprenant en outre

un capuchon de fermeture (400) couplé avec la partie supérieure du corps de récipient (100), pendant qu'il couvrent le capuchon de guidage de pompage (200).

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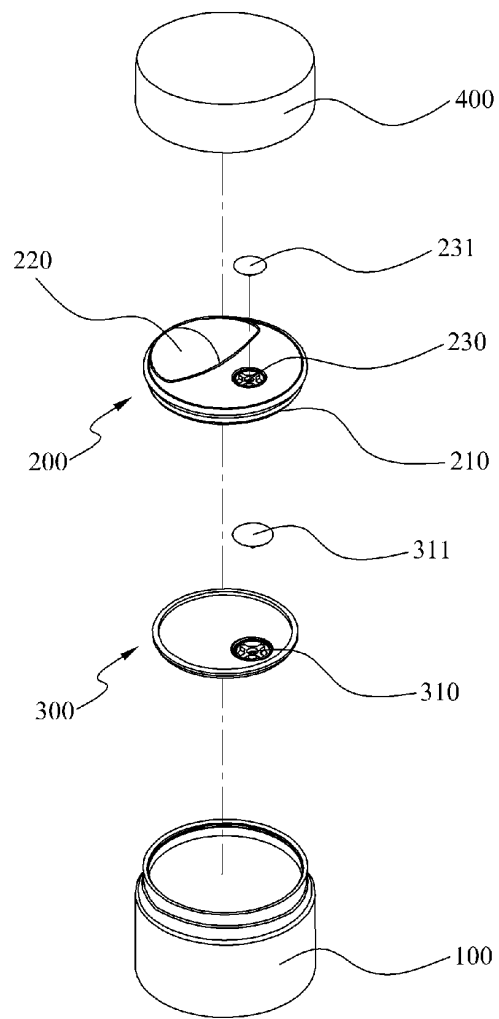
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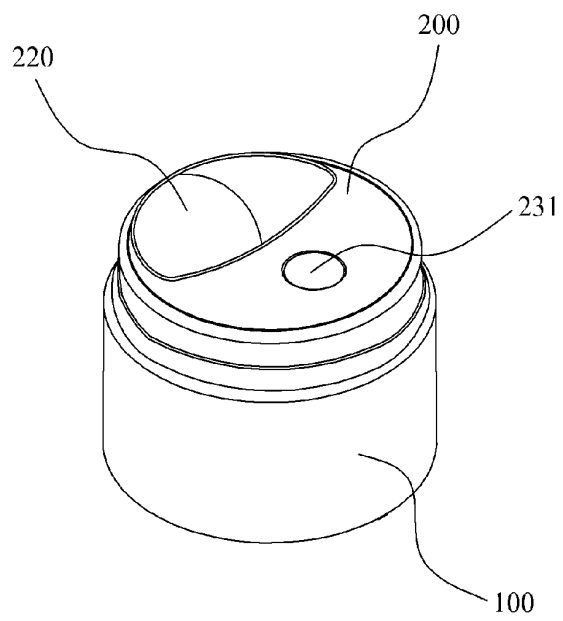
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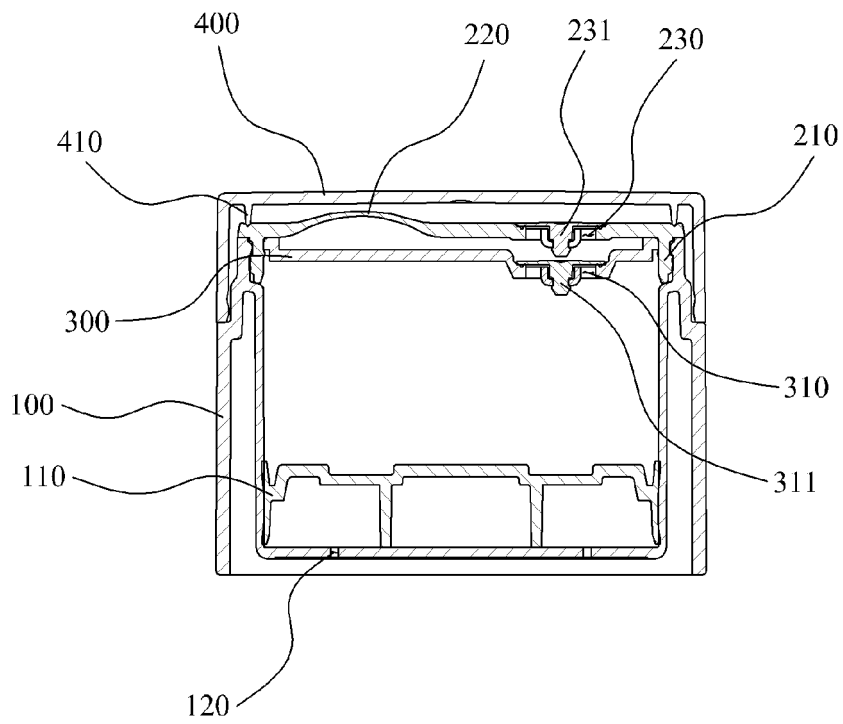
[Fig. 1]



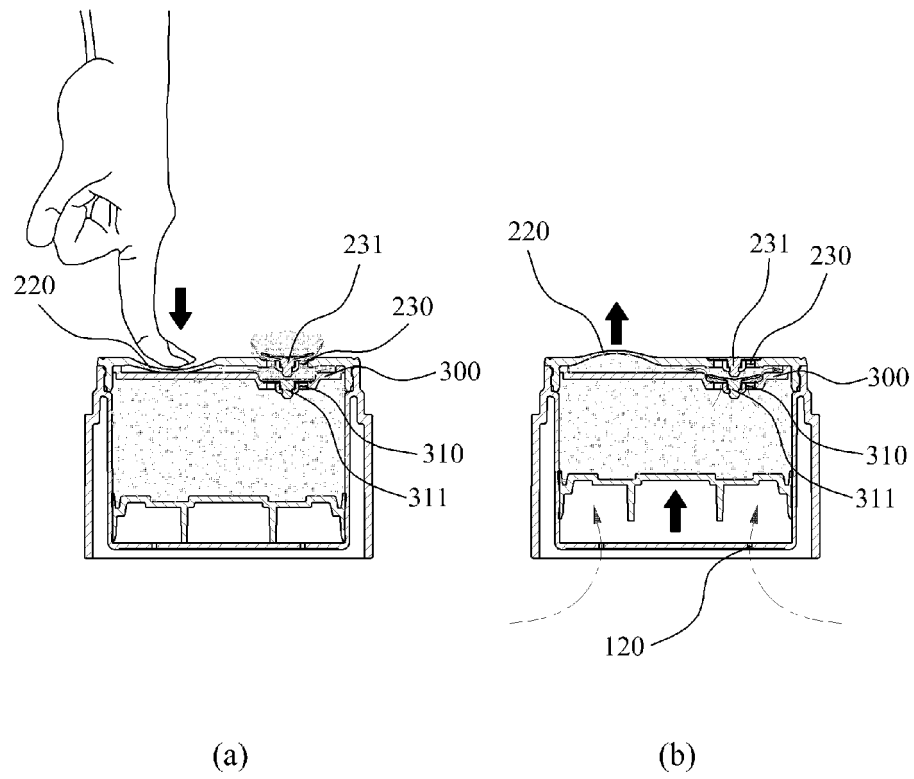
[Fig. 2]



[Fig. 3]



[Fig. 4]



REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- KR 200311503 [0002]
- US 5000355 A [0005]
- US 3361305 A [0005]
- JP 2006315745 B [0005]
- EP 0810160 A2 [0005]
- EP 0600286 A2 [0005]
- KR 1020070014884 [0005]