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(54) **POWDER PUFF ASSEMBLY**

(57) A powder puff assembly includes a base (1) having a recess (11) in which a puff (12) is received. A cover (2) has a room (21) which communicates with an open bottom (211) of the cover (2). The open bottom (211) faces the open top (111) of the base (1). A case (23) is received in the room (21) and cosmetic powder (231) is received in the case (23). A resilient member (24) is axially biased between an inner end of the room (21) and

the case (23) so that the case (23) is movable within the recess (11). When in use, the cover (2) is removed from the base (1), and the puff (12) presses onto the cosmetic material and the case (23) is resiliently moved in the recess (11) so as to evenly attach the cosmetic material to the puff (12). The puff (12) includes a dome-shaped top which is easily and conveniently applied to the desired position.

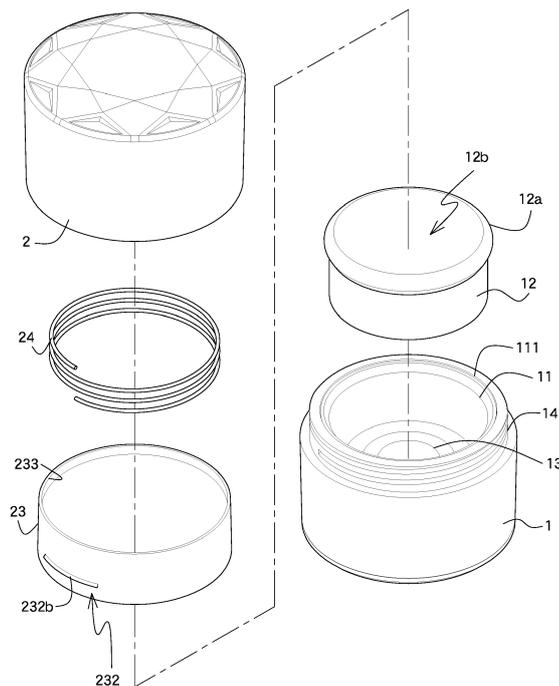


FIG.2

## Description

### BACKGROUND OF THE INVENTION

#### 1. Fields of the invention

**[0001]** The present invention relates to a powder puff assembly, and more particularly, to a powder puff assembly with a puff normally in contact with cosmetic powder received in the cosmetic powder case which is biased by a resilient member.

#### 2. Descriptions of Related Art

**[0002]** The conventional powder puff assembly generally includes a base, a puff and a cover, wherein the base receives a cosmetic powder case therein which filled with cosmetic powder. The puff is put on the cosmetic powder case, and the cover is threadedly connected to the base. When in use, the cover is removed from the base, and the puff attached with the cosmetic powder is then applied to the skin of desired positions.

**[0003]** However, the user applies different levels of force to press the puff onto the cosmetic powder, so that the cosmetic powder is not evenly attached to the puff during each time of use. The uneven amount of the cosmetic powder on the puff makes the application to be not well controlled.

**[0004]** The present invention intends to provide a powder puff assembly wherein the puff is normally in contact with the cosmetic powder when the cover is mounted to the base, so as to improve the shortcomings mentioned above.

### SUMMARY OF THE INVENTION

**[0005]** The present invention relates to a powder puff assembly and comprises a base having a recess defined therein. The base has an open top which communicates with the recess. A puff is received in the recess. A cover has a room defined therein which communicates with the open bottom of the cover. The open bottom faces the open top of the base when the cover is connected to the base. A case is received in the room, and cosmetic powder received in the case. A resilient member axially biased between the inner end of the room and the case so that the case is movable within the recess.

**[0006]** When the cover is mounted to the base, the case is moved to compress axially the resilient member, and the puff is in contact with the cosmetic powder in the case. When the cover is removed from the base, the puff is separated from the cosmetic powder. The resilient member is released and the case is pushed by the resilient member.

**[0007]** Preferably, at least one guide portion is formed on the inner periphery of the room of the cover. The case includes a guide member which is located corresponding to the at least one guide portion. The case is moved ax-

ially by the at least one guide portion.

**[0008]** Preferably, there are two guide portions which are located symmetrically to each other.

**[0009]** Preferably, the at least one guide portion includes a flat face and an inclined face which is located opposite to the flat face. The flat face extends radially and outward from the outer periphery of the case. The flat face faces the open bottom of the cover. The guide portion includes a flange which is located corresponding to the flat face. When the cover is removed from the base, the resilient member is released, and the flat face contacts the flange.

**[0010]** Preferably, the case includes a positioning portion. The resilient member has one end thereof contacting the positioning portion.

**[0011]** Preferably, an outer periphery of the puff protrudes beyond the open top of the recess of the base when the cover is removed from the base.

**[0012]** Preferably, a center top of the puff is higher than the outer periphery of the puff.

**[0013]** Preferably, the puff has a dome-shaped top.

**[0014]** Preferably, the recess includes a seat on which the case is put.

**[0015]** Preferably, a first connection portion is formed on the open top of the base. The cover includes a second connection portion which is connected to the first connection portion.

**[0016]** The advantages of the present invention are that, when the cover is mounted to the base, the puff contacts the cosmetic powder, and the case is resiliently moved axially and the resilient member is compressed. The resilient member keeps the contact between the puff and the cosmetic powder.

**[0017]** When removing the cover from the base to use the present invention, because the puff is not in contact with the cosmetic powder, and the case is moved in the direction away from the resilient member so that the resilient member is released. The case moves toward the open bottom of the room, and the flat face contacts the flange so that the case does not drop from the cover.

**[0018]** When the user use the puff to touch the cosmetic powder and pushes the puff to the cosmetic powder, the case is resiliently and axially movable in the room to compress the resilient member, so that the cosmetic powder is evenly attached on the puff. The user can evenly apply the cosmetic powder to the skin. Because the puff has a dome-shaped top so that the puff can perfectly touch the face and the dome-shaped top is easily to control.

**[0019]** The present invention will become more obvious from the following description when taken in connection with the accompanying drawings which show, for purposes of illustration only, a preferred embodiment in accordance with the present invention.

### BRIEF DESCRIPTION OF THE DRAWINGS

**[0020]**

Fig. 1 is a perspective view to show the powder puff assembly of the present invention;

Fig. 2 is an exploded view of the powder puff assembly of the present invention;

Fig. 3 is a cross sectional view, taken along line A-A in Fig. 1, wherein the cover is mounted to the base; Fig. 4 is a cross sectional view, taken along line A-A in Fig. 1, wherein the cover is removed from the base, and

Fig. 5 is a cross sectional view to show the operational status of the powder puff assembly of the present invention.

#### DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

**[0021]** Referring to Figs. 1 to 3, the powder puff assembly of the present invention comprises a base 1 having a recess 11 defined therein. The base 1 has an open top 111 which communicates with the recess 11. A puff 12 or a sponge is received in the recess 11. The puff 12 can be secured in the recess 11 by adherent. The recess 11 includes a seat 13 on which the case 13 is put. The outer periphery 12a of the puff 12 protrudes beyond the open top 111 of the recess 11 of the base 1 when the cover 2 is removed from the base 1. The center top 12b of the puff 12 is higher than the outer periphery 12a of the puff 12, and the puff 12 has a dome-shaped top.

**[0022]** A cover 2 has a room 21 defined therein which communicates with the open bottom 211 of the cover 2. The open bottom 211 faces the open top 111 of the base 1 when the cover 2 is connected to the base 1. Each of the base 1 and the cover 2 is a cylindrical member. A first connection portion 14 is formed on the open top 111 of the base 1, and the cover 2 includes a second connection portion 22 which is connected to the first connection portion 14. The first and second connection portions 14, 22 each may include multiple spiral threads. A case 23 is received in the room 21, and cosmetic powder 231 received in the case 23. The cosmetic powder 231 can be in a form of pressed powder or any suitable cosmetic material. A resilient member 24, such as a compression spring, is axially biased between the inner end of the room 21 and the case 23 so that the case 23 is movable within the recess 21. At least one guide portion 212 is formed on the inner periphery of the room 21 of the cover 2. In this embodiment, there are two guide portions 212 which are located symmetrically to each other. The case 23 includes a guide member 232 which is located corresponding to the at least one guide portion 212. The case 23 is moved axially by the at least one guide portion 212. The at least one guide portion 212 includes a flat face 232a and an inclined face 232b which is located opposite to the flat face 232a. The flat face 232a extends radially and outward from the outer periphery of the case 23. The flat face 232a faces the open bottom 211 of the cover 2. The guide portion 212 includes a flange 212a which is located corresponding to the flat face 232a. When the

cove 2 is removed from the base 1, the resilient member 24 is released, and the flat face 232a contacts the flange 212a. The case 23 includes a positioning portion 233, and the resilient member 24 has one end thereof contacting the positioning portion 233.

**[0023]** As shown in Fig. 3, when the cover 2 is mounted to the base 1, due to that the puff 12 is made by resilient material, the puff 12 contacts the cosmetic powder 231. The case 23 is moved to compress axially the resilient member 24, and the puff 12 is in contact with the cosmetic powder 231 in the case 23.

**[0024]** As shown in Fig. 4, when the cover 2 is removed from the base 1, the puff 12 is separated from the cosmetic powder 231, the resilient member 24 is released and the case 23 is pushed by the resilient member 24 and moves toward the open bottom 211 of the room 21. The flat face 232a contacts the flange 212a to prevent the case 23 from dropping off.

**[0025]** As shown in Fig. 5, when the user applies a force to the puff 12 to press the cosmetic powder 231, the case 23 is moved within the room 21 by the resilient feature of the resilient member 24. The cosmetic powder 231 is able to be evenly attached to the puff 12. When the puff 12 is moved away from the cosmetic powder 231, the flat face 232a contacts the flange 212a so that the user can attach the cosmetic powder 231 to the puff 12 properly. The puff 12 has a dome-shaped top so that the puff 12 is able to perfectly touch the face and the dome-shaped top is easily to control.

**[0026]** It is noted that if the resilient member 24 is installed in the recess 11 of the base 1 to bias the puff 12, when the user holds the base 1 and touch the cosmetic powder 231 by the puff 12, the force is not easily controlled so that the cosmetic powder cannot be evenly attached to the puff 12. When puffing the puff 12 on the face, the resilient member 24 will be compressed improperly and the angle and force to the puff 12 are not easily controlled. Therefore, the resilient member 24 is installed in the cover 2 and biases the case 23.

**[0027]** While we have shown and described the embodiment in accordance with the present invention, it should be clear to those skilled in the art that further embodiments may be made without departing from the scope of the present invention.

#### Claims

1. A powder puff assembly comprising:

a base having a recess defined therein, the base having an open top which communicates with the recess, a puff received in the recess;  
a cover having a room defined therein which communicates with an open bottom of the cover, the open bottom facing the open top of the base when the cover is connected to the base, a case received in the room, cosmetic powder received

in the case, a resilient member axially biased between an inner end of the room and the case so that the case is movable within the recess, and

when the cover is mounted to the base, the case is moved to compress axially the resilient member, and the puff is in contact with the cosmetic powder in the case, when the cover is removed from the base, the puff is separated from the cosmetic powder, the resilient member is released and the case is pushed by the resilient member.

open top of the base, the cover includes a second connection portion which is connected to the first connection portion.

2. The powder puff assembly as claimed in claim 1, wherein at least one guide portion formed on an inner periphery of the room of the cover, the case includes a guide member which is located corresponding to the at least one guide portion, the case is moved axially by the at least one guide portion.

3. The powder puff assembly as claimed in claim 2, wherein there are two guide portions which are located symmetrically to each other.

4. The powder puff assembly as claimed in claim 2, wherein the at least one guide portion includes a flat face and an inclined face which is located opposite to the flat face, the flat face extends radially and outward from an outer periphery of the case, the flat face faces the open bottom of the cover, the guide portion includes a flange which is located corresponding to the flat face, when the cover is removed from the base, the resilient member is released, and the flat face contacts the flange.

5. The powder puff assembly as claimed in claim 1, wherein the case includes a positioning portion, the resilient member has one end thereof contacting the positioning portion.

6. The powder puff assembly as claimed in claim 1, wherein an outer periphery of the puff protrudes beyond the open top of the recess of the base when the cover is removed from the base.

7. The powder puff assembly as claimed in claim 6, wherein a center top of the puff is higher than the outer periphery of the puff.

8. The powder puff assembly as claimed in claim 1, wherein the puff has a dome-shaped top.

9. The powder puff assembly as claimed in claim 1, wherein the recess includes a seat on which the case is put.

10. The powder puff assembly as claimed in claim 1, wherein a first connection portion is formed on the

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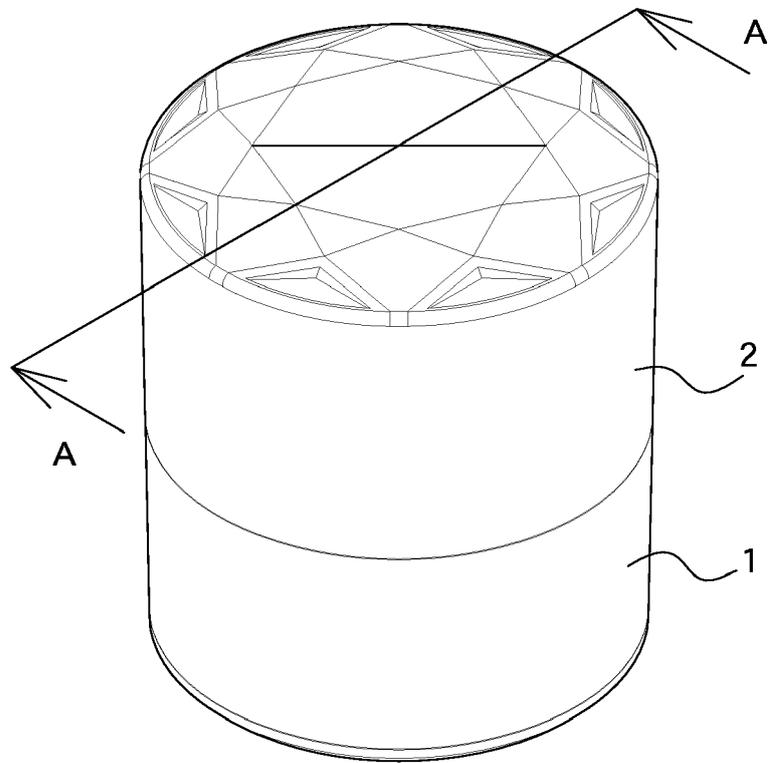


FIG.1

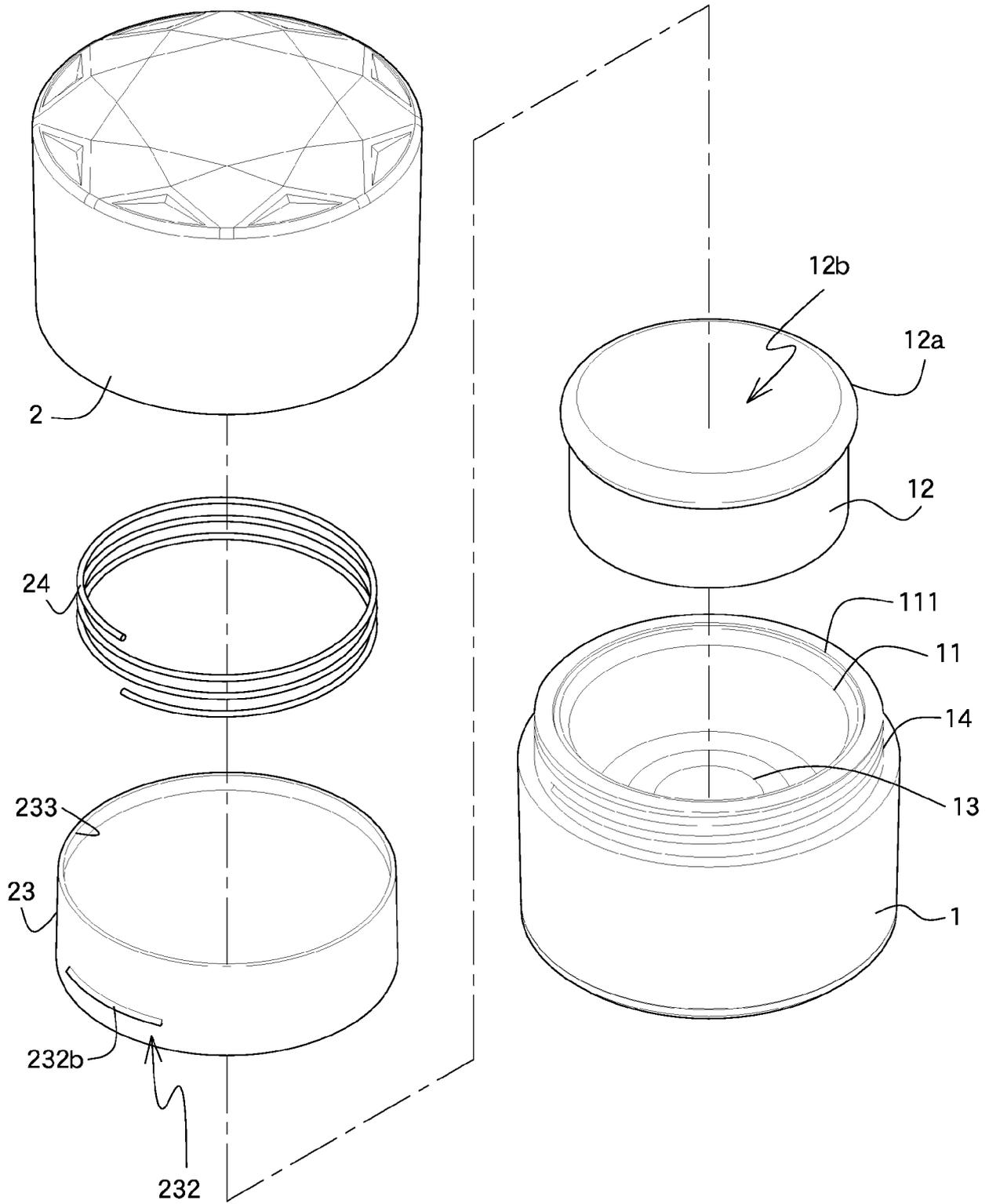


FIG.2

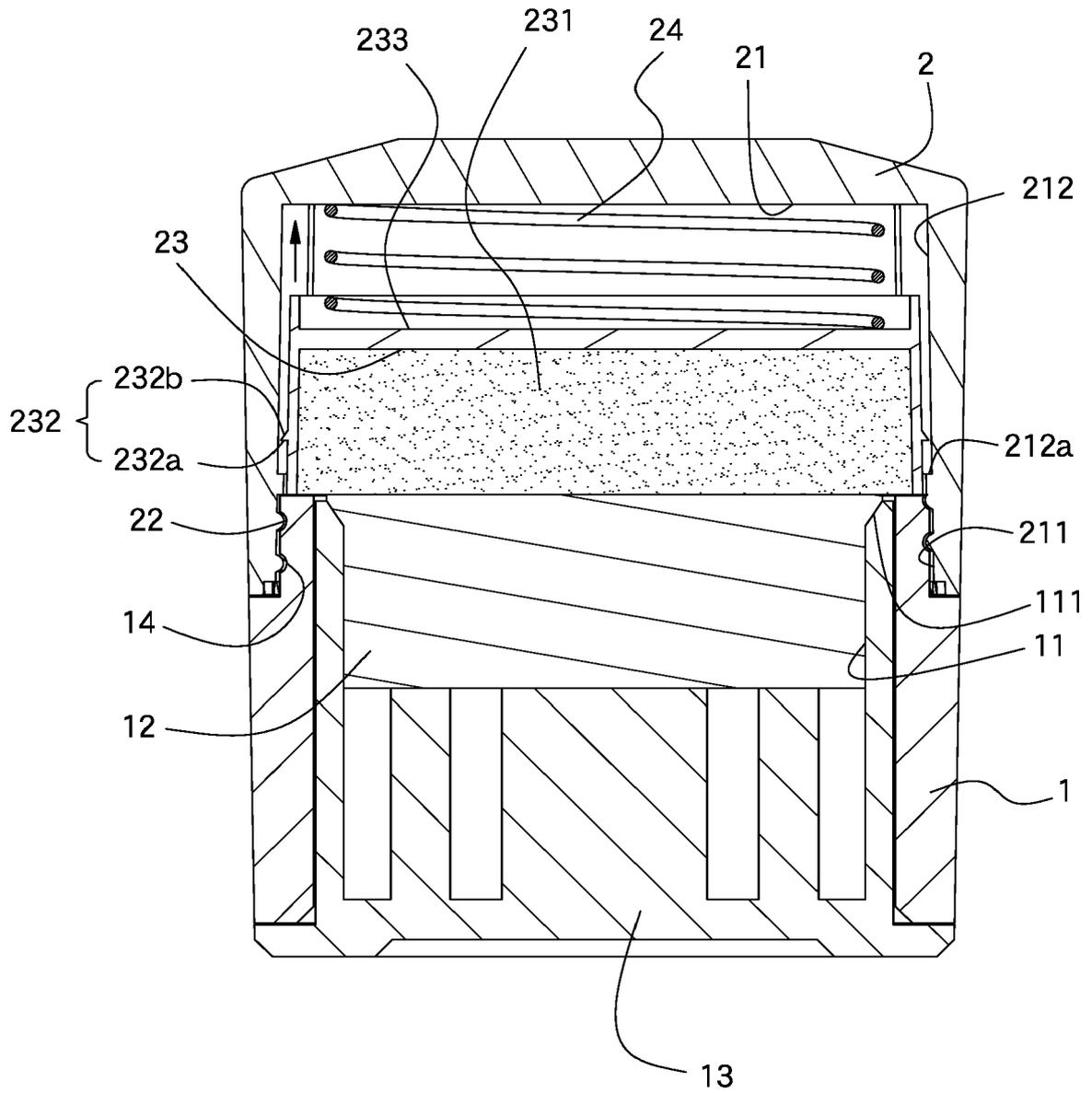


FIG.3

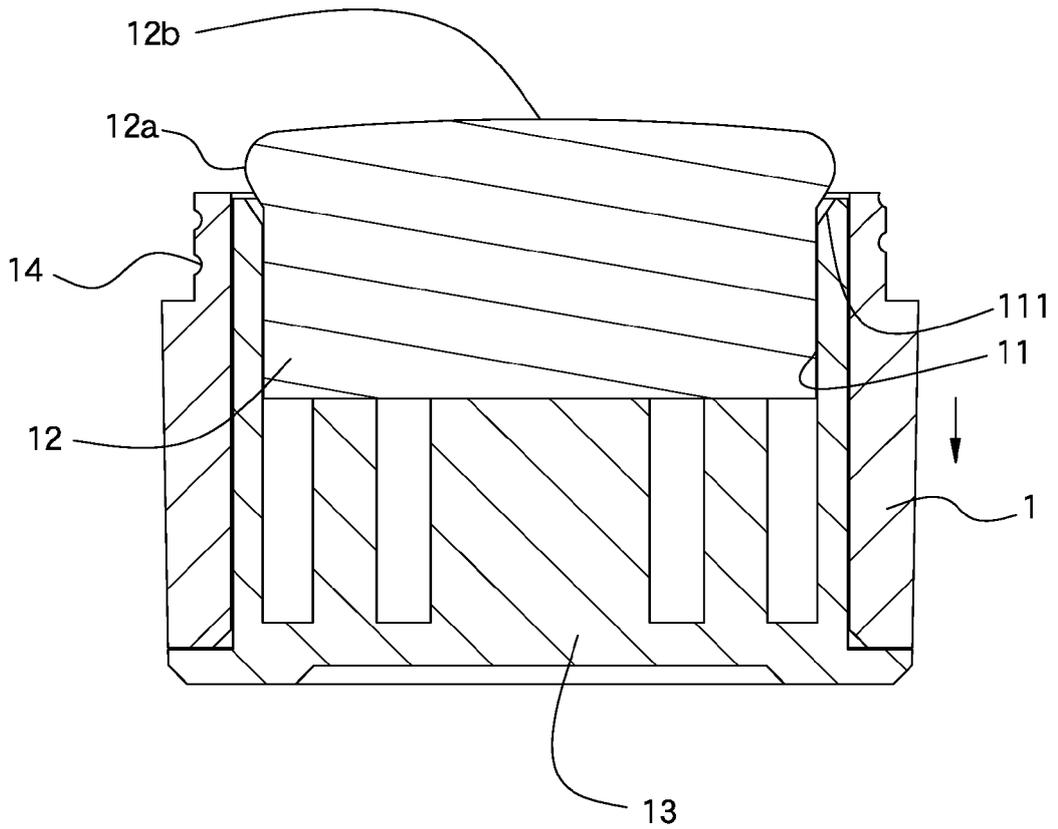
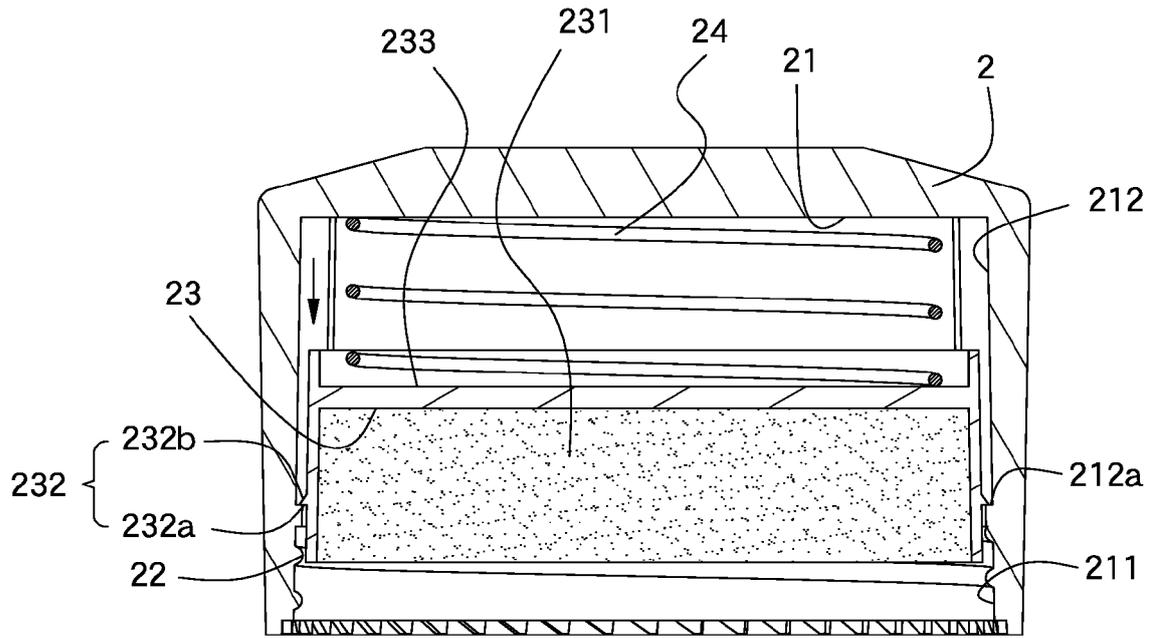


FIG.4

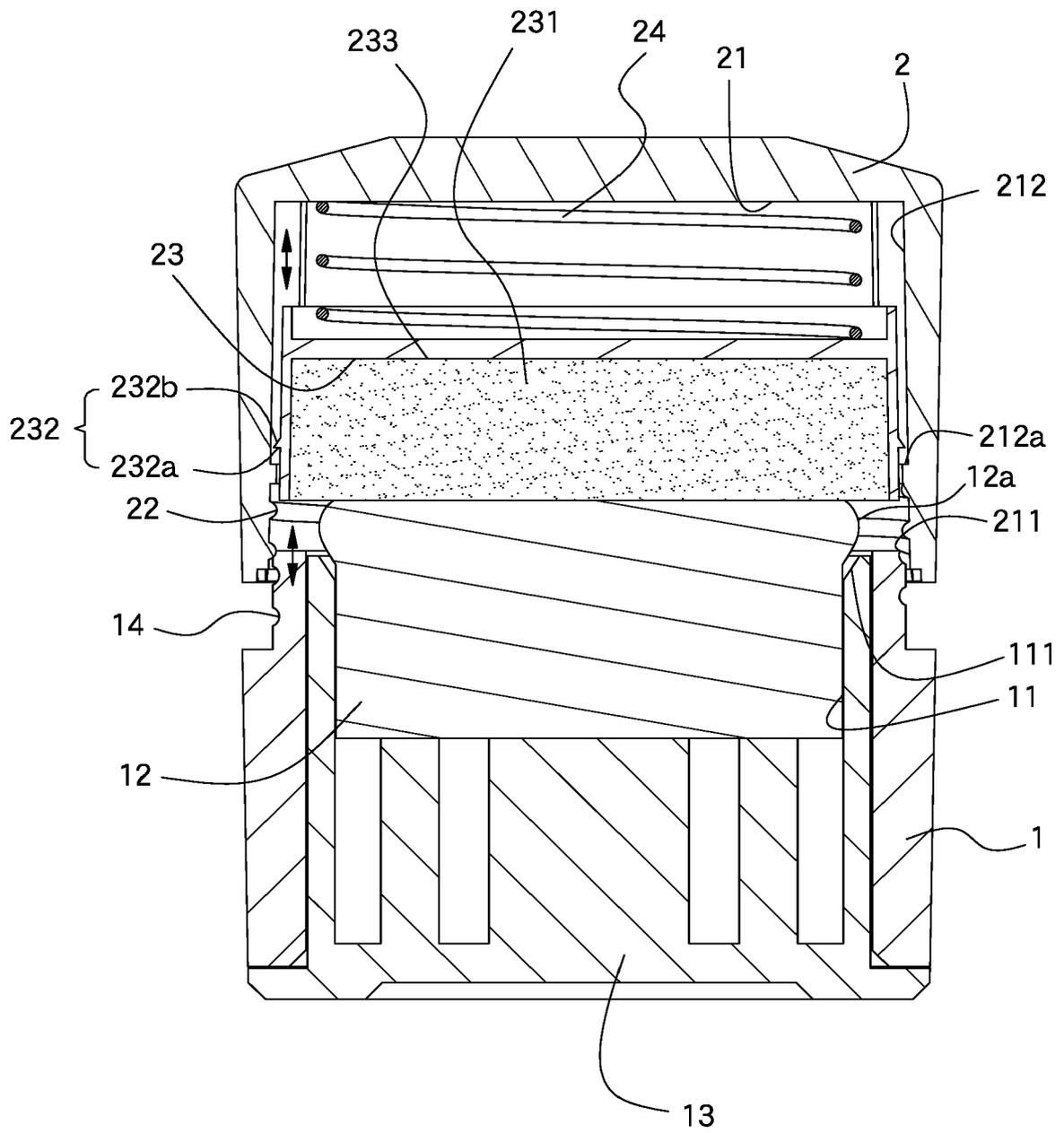


FIG.5



EUROPEAN SEARCH REPORT

Application Number  
EP 17 15 8377

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	WO 2009/123380 A1 (LG HOUSEHOLD & HEALTH CARE LTD [KR]; CHO JEONG-HOON [KR]; LEE WON-WOO) 8 October 2009 (2009-10-08) * paragraphs [0026] - [0043] * * figures 2-7 *	1-3,5-10	INV. A45D33/00 A45D33/04
X	----- KR 2010 0006751 U (-) 2 July 2010 (2010-07-02) * paragraphs [0014] - [0025] * * figures 1-4 * -----	1-10	
			TECHNICAL FIELDS SEARCHED (IPC)
			A45D
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 22 August 2017	Examiner Witkowska-Piela, A
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone                      Y : particularly relevant if combined with another document of the same category                      A : technological background                      O : non-written disclosure                      P : intermediate document</p> <p>T : theory or principle underlying the invention                      E : earlier patent document, but published on, or after the filing date                      D : document cited in the application                      L : document cited for other reasons                      .....                      &amp; : member of the same patent family, corresponding document</p>			

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EPO FORM 1503 03.82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 17 15 8377

5 This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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22-08-2017

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For more details about this annex : see Official Journal of the European Patent Office, No. 12/82