



(11)

EP 3 494 833 A1

(12)

EUROPEAN PATENT APPLICATION

(43) Date of publication:
12.06.2019 Bulletin 2019/24

(51) Int Cl.:
A45D 40/00 (2006.01) **A45D 33/06 (2006.01)**
A45D 33/02 (2006.01) **A45D 33/00 (2006.01)**

(21) Application number: **18169095.9**

(22) Date of filing: **24.04.2018**

(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
Designated Extension States:
BA ME
Designated Validation States:
KH MA MD TN

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(30) Priority: **07.12.2017 TW 106218169 U**

(54) **COSMETIC CONTAINER**

(57) A cosmetic container (100) includes a base (3) having a bottom wall (31), and a surrounding wall (32) extending upwardly from and cooperating with the bottom wall (31) to define an accommodating space (6) for containing a cosmetic material (21). A top cover unit (4) removably covers the base (3). A gasket unit (5) is disposed on the surrounding wall (32) opposite to the bottom wall (31) and includes a silicone piece (53) extending across and covering the accommodating space (6). The silicone piece (53) is formed with a through hole group (54) communicating with the accommodating space (6), and is depressible to contact the cosmetic material (21) and to permit access of the cosmetic material (21) through the through hole group (54).

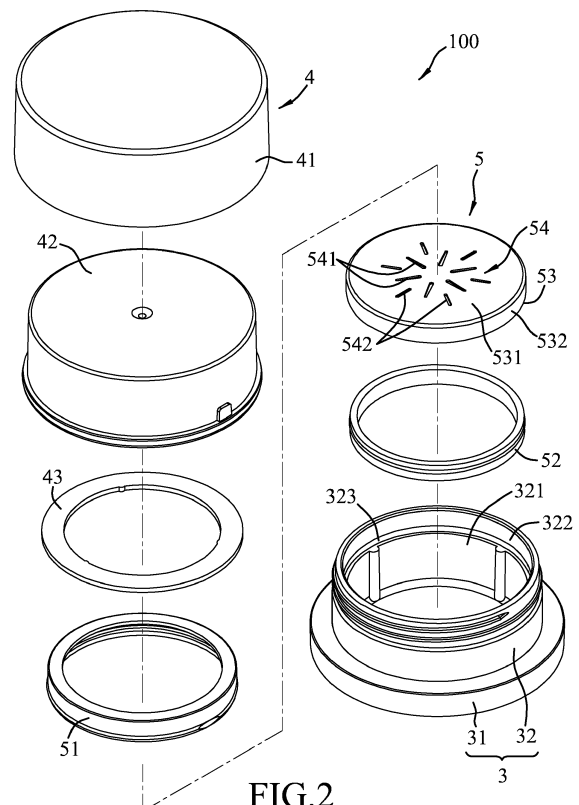


FIG.2

Description

[0001] The disclosure relates to a container, more particularly to a cosmetic container.

[0002] Referring to Fig. 1, a conventional cosmetic container 11 includes a base 112 having a cylindrical shape and defining an accommodating space 111 for containing a cosmetic material 12, and a top cover 113 removably covering the base 112. The cosmetic material 12 is in the form of a paste, such as a lip rouge, an eyeliner, a moisturizer, etc.

[0003] In use, a brush, such as a lip brush, or a user's finger is used to rub directly and repeatedly the cosmetic material 12, or is lightly dug into the cosmetic material 12 to take a small amount thereof for use. Whichever way is used, the problem of taking an excessive amount of the cosmetic material 12 often exists, so that the user is forced to smear the excessive cosmetic material 12 back onto the base 112 to avoid wastage. However, the cosmetic material 12 not only adhere to the base 112, but also to the top cover 113, so that use of the conventional cosmetic container 11 is messy. Further, external dust easily attaches to a top surface of the cosmetic material 12, so that a hygiene problem exists.

[0004] Therefore, an object of the present disclosure is to provide a cosmetic container that is capable of alleviating at least one of the drawbacks of the prior art.

[0005] Accordingly, a cosmetic container of this disclosure includes a base, a top cover unit and a gasket unit. The base includes a bottom wall, and a surrounding wall extending upwardly from and cooperating with the bottom wall to define an accommodating space for containing a cosmetic material. The top cover unit removably covers the base. The gasket unit is disposed on the surrounding wall opposite to the bottom wall and includes a silicone piece extending across and covering the accommodating space. The silicone piece is formed with a through hole group communicating with the accommodating space, and is depressible to contact the cosmetic material and to permit access of the cosmetic material through the through hole group.

[0006] Other features and advantages of the disclosure will become apparent in the following detailed description of the embodiment with reference to the accompanying drawings, of which:

Fig. 1 is an exploded perspective view of a conventional cosmetic container;

Fig. 2 is an exploded perspective view of a cosmetic container according to the embodiment of the present disclosure;

Fig. 3 is an assembled sectional view of the embodiment;

Fig. 4 is a top view of the embodiment;

Fig. 5 is a view similar to Fig. 3, but illustrating how to access a cosmetic material contained in the cosmetic container of the embodiment;

Fig. 6 is a view similar to Fig. 4, but illustrating how

a silicone piece of the embodiment can be used as a palette;

Fig. 7 is a view similar to Fig. 5, but illustrating how the cosmetic material can be completely taken up; and

Fig. 8 illustrates how a through hole group in the silicone piece of the embodiment is deformed when a central portion of the silicone piece is depressed.

[0007] Referring to Figs. 2 to 4, a cosmetic container 100 according to the embodiment of the present disclosure is configured to contain a cosmetic material 21, and includes a base 3, a top cover unit 4 removably covering the base 3, and a gasket unit 5 disposed between the base 3 and the top cover unit 4. The cosmetic material 21 is in the form of a paste, such as a lip rouge, an eyeliner, a moisturizer, etc.

[0008] The base 3 includes a bottom wall 31 having a disc shape, and a surrounding wall 32 extending upwardly from and cooperating with the bottom wall 31 to define an accommodating space 6 for containing the cosmetic material 21. The surrounding wall 32 is located in proximity to an outer periphery of the bottom wall 31, and includes a first surrounding wall portion 321 extending upwardly from the bottom wall 31 and having a ring shape, a second surrounding wall portion 322 extending upwardly from the first surrounding wall portion 321 and having a thickness thinner than that of the first surrounding wall portion 322, and an annular shoulder 323 between an inner peripheral surface of the first surrounding wall portion 321 and an inner peripheral surface of the second surrounding wall portion 322. The second surrounding wall portion 322 further has a height smaller than that of the first surrounding wall portion 321, and an outer peripheral surface thereof is formed with an external thread.

[0009] The top cover unit 4 includes a transparent outer cover 41, a non-transparent inner cover 42 disposed into the outer cover 41, and a washer 43 disposed in the inner cover 42. The inner cover 42 has an inner peripheral surface formed with an internal thread for engagement with the external thread of the second surrounding wall portion 322, so that the top cover unit 4 can be rotated relative to the base 3 so as to be removed from or to cover the base 3. The washer 43 can be pressed by the surrounding wall 32 to slightly deform for enhancing the sealing effect of this embodiment. Since the design and technique of the top cover unit 4 is well known in the art and is not an important aspect of this disclosure, a detailed description thereof is omitted herein.

[0010] The gasket unit 5 is disposed on the second surrounding wall portion 322 opposite to the bottom wall 31, and includes an outer ring member 51 pressfitted into the inner peripheral surface of the second surrounding wall portion 322 and having a bottom periphery abutting against the shoulder 323, an inner ring member 52 pressfitted into the outer ring member 51, and a silicone piece 53 sandwiched between the outer and inner ring mem-

bers 51, 52. The outer ring member 51 has an inverted L-shaped cross section, and includes an annular vertical wall 511 having two spaced-apart annular ribs, and an annular horizontal wall 512 extending radially and inwardly from a top periphery of the vertical wall 511. The inner ring member 52 has an annular rib cooperating with the two annular ribs of the vertical wall 511 to press therebetween the silicone piece 53.

[0011] The silicone piece 53 has a durometer Shore A hardness of 45 (45 ± 5 Shore A), and includes a circular deformable portion 531 extending across and covering the accommodating space 6, and a positioning portion 532 extending downwardly from an outer periphery of the deformable portion 531 and sandwiched between the outer and inner ring members 51, 52. The deformable portion 531 has a thickness of 0.3mm, and is formed with a through hole group 54 communicating with the accommodating space 6. In this embodiment, the through hole group 54 includes six first through holes 541 equiangularly spaced apart from each other along a first circular direction (D1) proximate to the center of the deformable portion 531, and six second through holes 542 equiangularly spaced apart from each other along a second circular direction (D2) surrounding the first circular direction (D1).

[0012] The first and second through holes 541, 542 are arranged staggered in relation to one another. Each of the first and second through holes 541, 542 extends in a radial direction. Each first through hole 541 extends radially between two adjacent ones of the second through holes 542, while each second through hole 542 extends radially between two adjacent ones of the first through holes 541. Each first through hole 541 has radially opposite inner and outer ends 543, 544, and tapers from the inner end 543 to the outer end 544. In this embodiment, the inner end 543 has a radius of curvature of 0.35mm, while the outer end 544 has a radius of curvature of 0.2mm. Each first through hole 541 has a length (L1) of 4.55mm, and a largest width (W1) of 0.7mm. Thus, the length (L1) is 6.5 times the width (W1). Further, the first through holes 541 are spaced apart from each other by an angle of 60 degrees. Each second through hole 542 has two opposite ends 545, each of which has a radius of curvature of 0.3mm. Each second through hole 542 has a length (L2) of 3.5mm, and a width (W2) of 0.5mm. Thus, the length (L2) is 7 times the width (W2).

[0013] The positioning portion 532 has a ring shape and a thickness of 0.6mm. The positioning portion 532 can be completely sandwiched and positioned by the outer and inner ring members 51, 52.

[0014] In other embodiments of this disclosure, the thickness of the silicone piece 53 may range from 0.2 to 0.7 mm, the radius of curvature of the inner end 543 may range from 0.3 to 0.4mm, the radius of curvature of the outer end 544 may range from 0.15 to 0.2mm, the length (L1) maybe 6 to 8 times the width (W1), the length (L2) may be 6 to 8 times the width (W2), and the radius of curvature of each end 545 may range from 0.25 to

0.35mm.

[0015] Referring to Figs. 3 and 5, to use the cosmetic material 21 contained in the accommodating space 6 of the cosmetic container 100, a user can use a brush 22 or his/her finger (not shown) to depress the deformable portion 531 of the silicone piece 53 so as to contact the cosmetic material 21. If the cosmetic material 21 is a solid paste material, the brush 22 or the finger can take up an appropriate amount of the cosmetic material 21 through the first through holes 541 and/or the second through holes 542. If the cosmetic material 21 is a liquid paste material, an appropriate amount of the liquid paste material is squeezed out through the first through holes 541 and/or the second through holes 542 so as to be taken up by the brush 22 or the finger. During operation, the user can adjust the pressing time and the pressing force to control the amount of the cosmetic material 21 to be taken. Hence, operation of this disclosure is very easy.

[0016] Referring to Figs. 6 to 8, after the cosmetic material 21 are taken up or squeezed out of the accommodating space 6, the deformable portion 531 of the silicone piece 53 is restored to its original shape, and can serve as a palette for the brush 22 or the finger to wipe evenly the cosmetic material 21, so that a uniform make-up can be conducted subsequently.

[0017] The advantage of using the silicone piece 53 in this embodiment is that silicone has good elasticity and large degree of deformation, such that, even if the amount of the cosmetic material 21 in the accommodating space 6 is small, it can be ensured that the cosmetic material 21 can be completely taken up by the user, as shown in Fig. 7. Further, because the silicone piece 53 is disposed above and covers the cosmetic material 21, apart from preventing leakage of the cosmetic material 21, the chances of the cosmetic material 21 being directly exposed to outside environment and be contaminated can also be simultaneously reduced.

[0018] Referring back to Figs. 4 and 8, the advantage of arranging the first through holes 541 and the second through holes 542 along the first circular direction (D1) and the second circular direction (D2), respectively, and in staggered relation to one another such that each first through hole 541 extends radially between two adjacent second through holes 542 and each second through hole 542 extends radially between two adjacent first through holes 541, is that it can provide channels for the cosmetic material 21 to be taken up or squeezed out when the deformable portion 531 of the silicone piece 53 is depressed in different directions. Further, the first and second through holes 541, 542 are elongated to improve clogging problems associated with small holes. Moreover, through the tapered structure of each first through hole 541 and in coordination with each second through hole 542, apart from presenting an aesthetic appearance simulating a blooming flower when they are deformed, as shown in Fig. 8, they also has an advantage of not easily breaking when stretched. The design of the deformable portion 531 of the silicone piece 53 is circular

so that it can have an average tension when extended and deformed and cannot easily break. The extending direction of the positioning portion 532 is different from the extending direction of the deformable portion 531, so that the positioning portion 532 can be sandwiched between the outer and inner ring members 51, 52 and cannot be easily removed from the same. Furthermore, the positioning portion 532 is circular to increase its contact area with the outer and inner ring members 51, 52, and with the friction between the positioning portion 532 and the outer and inner ring members 51, 52 increased, the positioning effect of the positioning portion 532 can be enhanced.

[0019] In sum, the advantages of the cosmetic container 100 of this disclosure reside in that: the gasket unit 5 can prevent the brush 22 or the finger to directly contact the cosmetic material 21, and can only permit the cosmetic material 21 to be taken up through the through hole group 54. Apart from preventing the user from taking excessive amount of the cosmetic material 21, the gasket unit 5 can also serve as a palette for uniform wiping of the cosmetic material 21 by the brush 22 or the finger to facilitate subsequent make-up. Additionally, the gasket unit 5 can lower the chance of the cosmetic material 21 to be in direct contact with the outside environment, so that the cosmetic container 100 of this disclosure is hygienic.

Claims

1. A cosmetic container (100) comprising a base (3) and a top cover unit (4) removably covering said base (3), the base (3) including a bottom wall (31), and a surrounding wall (32) extending upwardly from and cooperating with said bottom wall (31) to define an accommodating space (6) for containing a cosmetic material (21), **characterized by:**
a gasket unit (5) disposed on said surrounding wall (32) opposite to said bottom wall (31) and including a silicone piece (53) extending across and covering said accommodating space (6), said silicone piece (53) being formed with a through hole group (54) communicating with said accommodating space (6), and being depressible to contact the cosmetic material (21) and to permit access of the cosmetic material (21) through said through hole group (54).
2. The cosmetic container (100) as claimed in Claim 1, wherein said through hole group (54) includes a plurality of first through holes (541) angularly spaced apart from each other along a first circular direction (D1) proximate to the center of said silicone piece (53), and a plurality of second through holes (542) angularly spaced apart from each other along a second circular direction (D2) surrounding the first circular direction (D1), said first and second through holes (541, 542) being arranged staggered in rela-

tion to one another.

3. The cosmetic container (100) as claimed in Claim 2, wherein each of said first and second through holes (541, 542) extends in a radial direction.
4. The cosmetic container (100) as claimed in Claim 3, wherein each of said first through holes (541) extends radially between two adjacent ones of said second through holes (542), and each of said second through holes (542) extends radially between two adjacent ones of said first through holes (541).
5. The cosmetic container (100) as claimed in any one of Claims 2 to 4, wherein the length (L1) of each of said first through holes (541) is 6 to 8 times the width thereof, and the length (L2) of each of said second through holes (542) is 6 to 8 times the width thereof.
6. The cosmetic container (100) as claimed in any one of Claims 2 to 5, wherein each of said first through holes (541) has radially opposite inner and outer ends (543, 544), and tapers from said inner end (543) to said outer end (544), said inner end (543) having a radius of curvature of about 0.3mm to 0.4mm, said outer end (544) having a radius of curvature of about 0.15mm to 0.25mm.
7. The cosmetic container (100) as claimed in any one of Claims 2 to 6, wherein each of said second through holes (541, 542) has two opposite ends (545), each of which has a radius of curvature of about 0.25mm to 0.35mm.
8. The cosmetic container (100) as claimed in any one of Claims 1 to 7, wherein said gasket unit (5) further includes an outer ring member (51) and an inner ring member (52) engaged to each other, said silicone piece (53) including a circular deformable portion (531) extending across and covering said accommodating space (6), and a positioning portion (532) extending downwardly from an outer periphery of said circular deformable portion (531) and sandwiched between said outer and inner ring members (51, 52), said through hole group (54) being formed in said circular deformable portion (531).
9. The cosmetic container (100) as claimed in Claim 8, wherein said silicone piece (53) has a thickness of about 0.2mm to 0.7mm.
10. The cosmetic container (100) as claimed in Claim 8, wherein said surrounding wall (32) includes a first surrounding wall portion (321) extending upwardly from said bottom wall and having a ring shape, and a second surrounding wall portion (322) extending upwardly from said first surrounding wall portion (321) and having a thickness thinner than that of said

first surrounding wall portion (321), and an annular shoulder (323) between an inner peripheral surface of said first surrounding wall portion (321) and an inner peripheral surface of said second surrounding wall portion (322), said outer ring member (51) being pressfitted into said inner peripheral surface of said second surrounding wall portion (322) and having a bottom periphery abutting against said annular shoulder (323).

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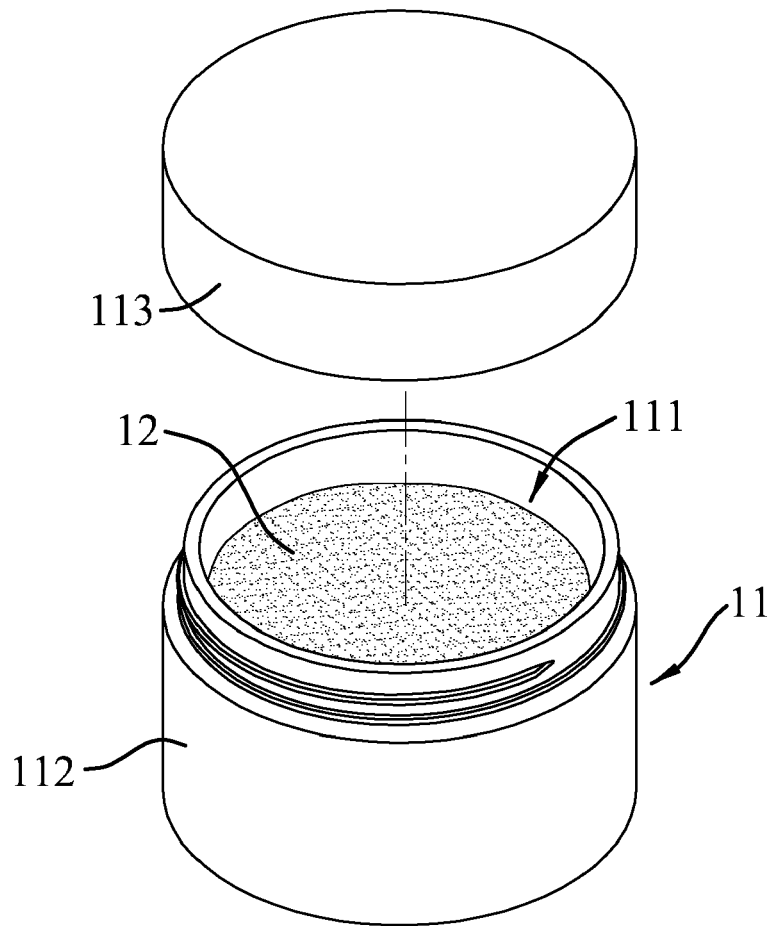
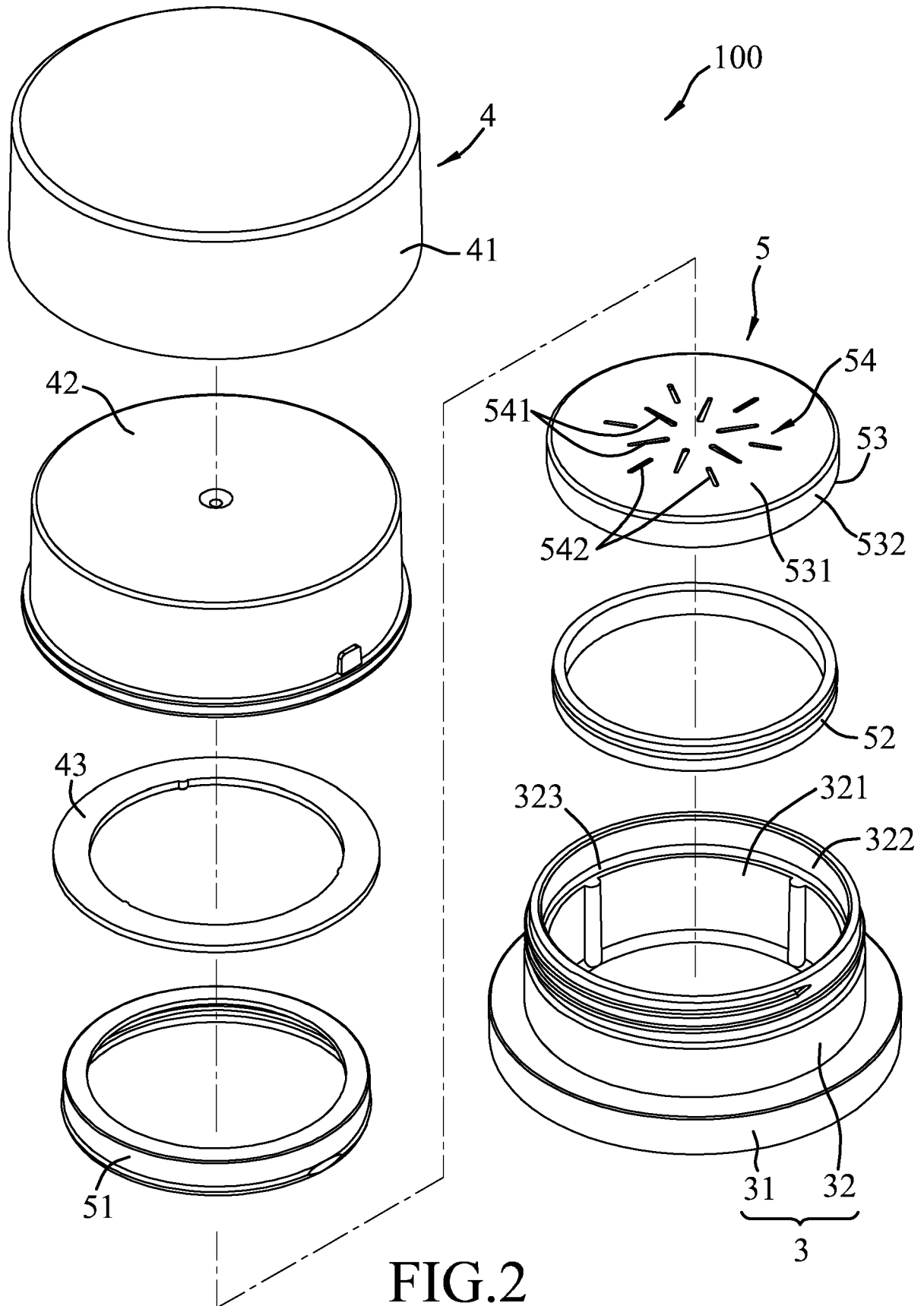


FIG.1



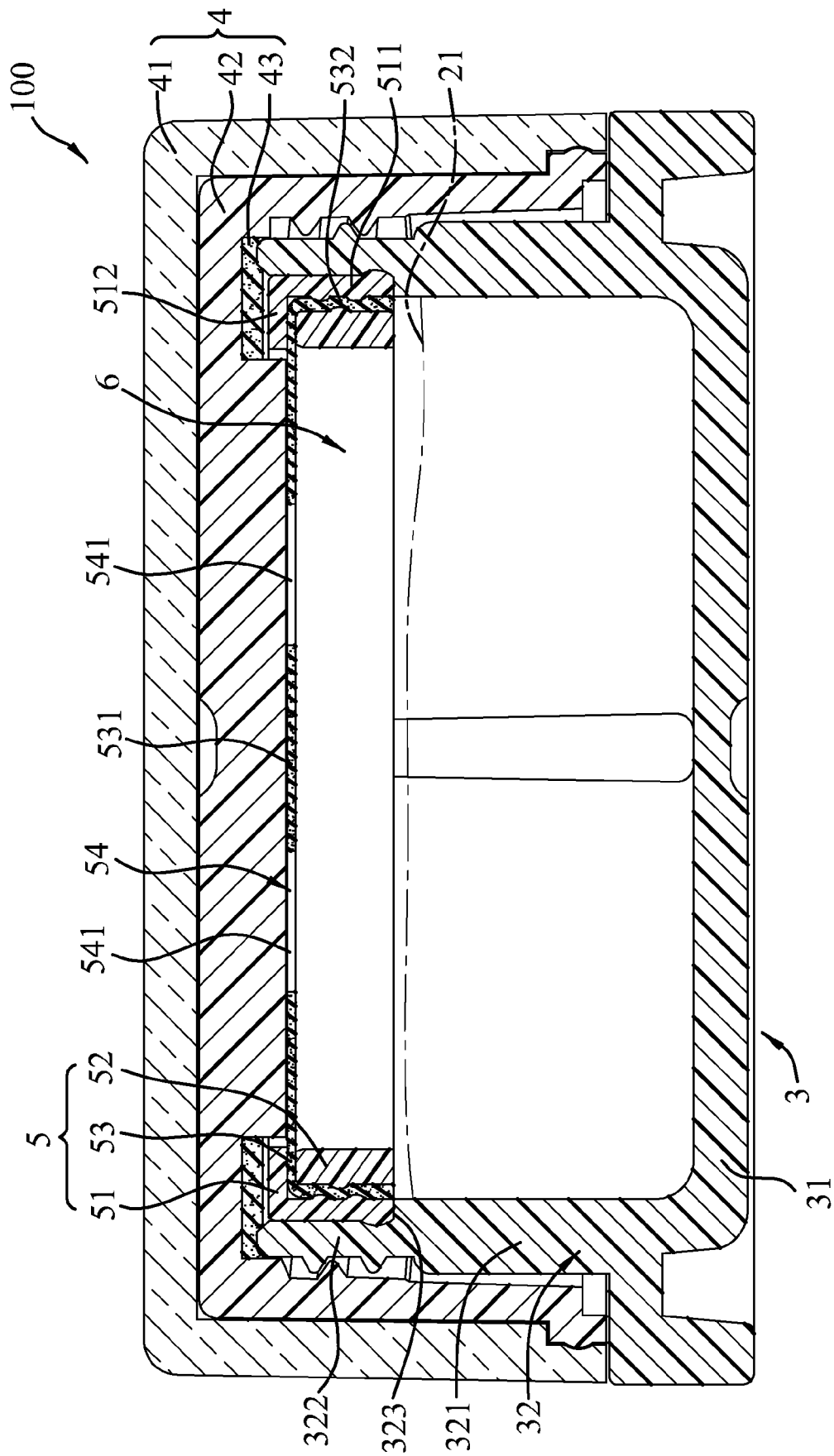


FIG.3

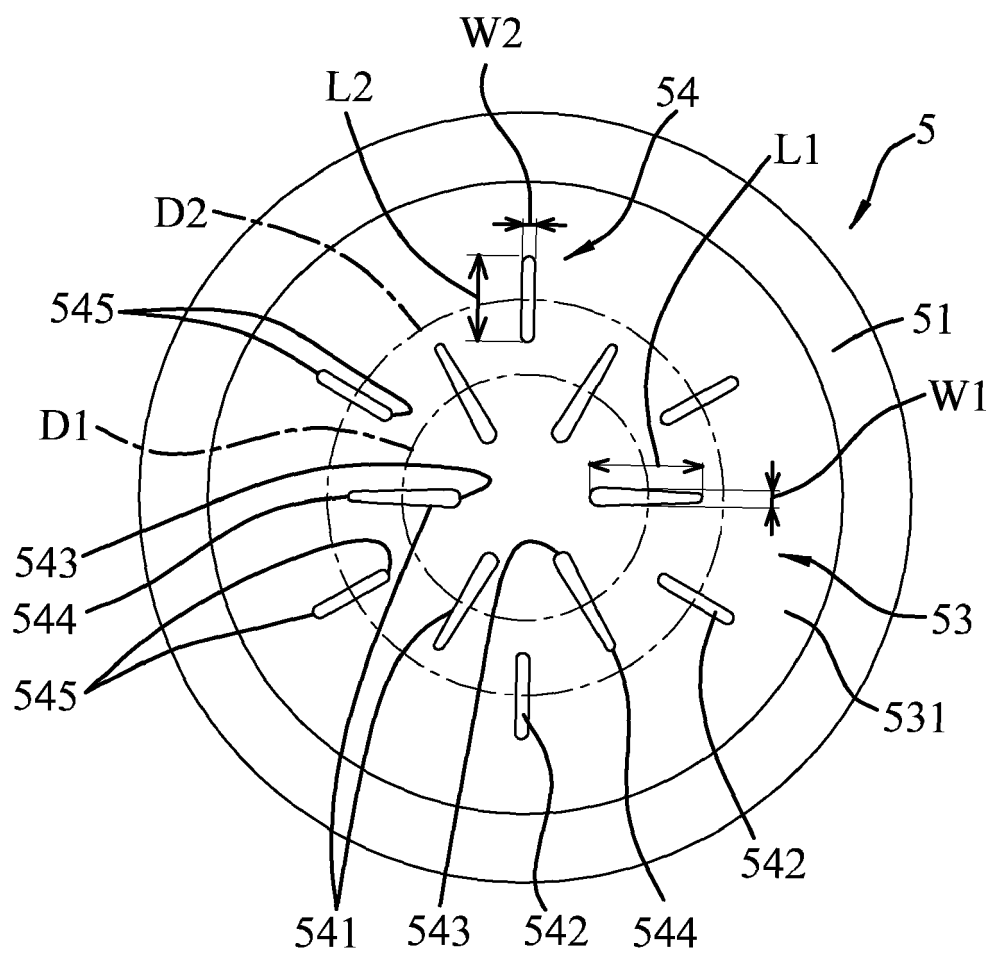


FIG.4

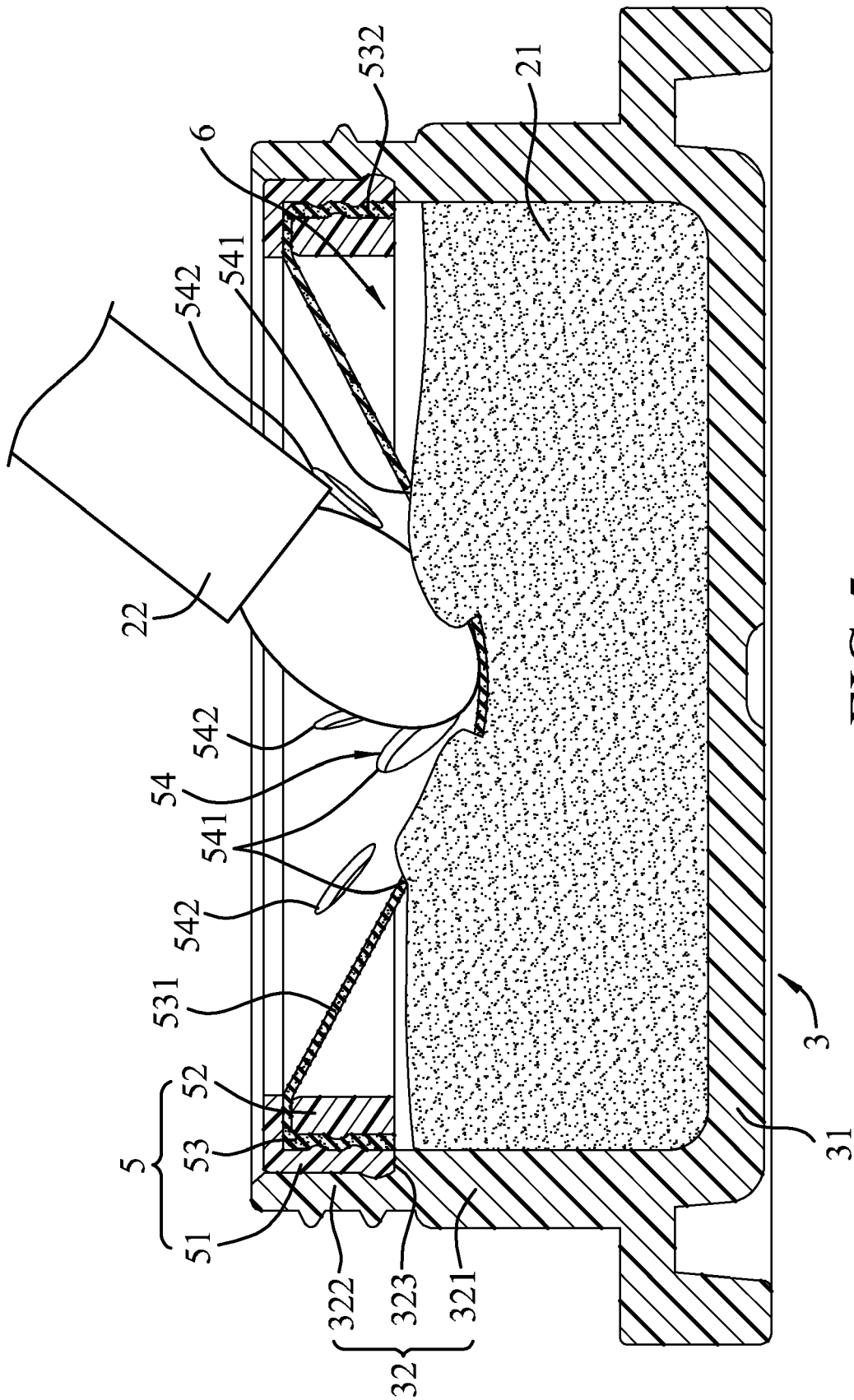


FIG.5

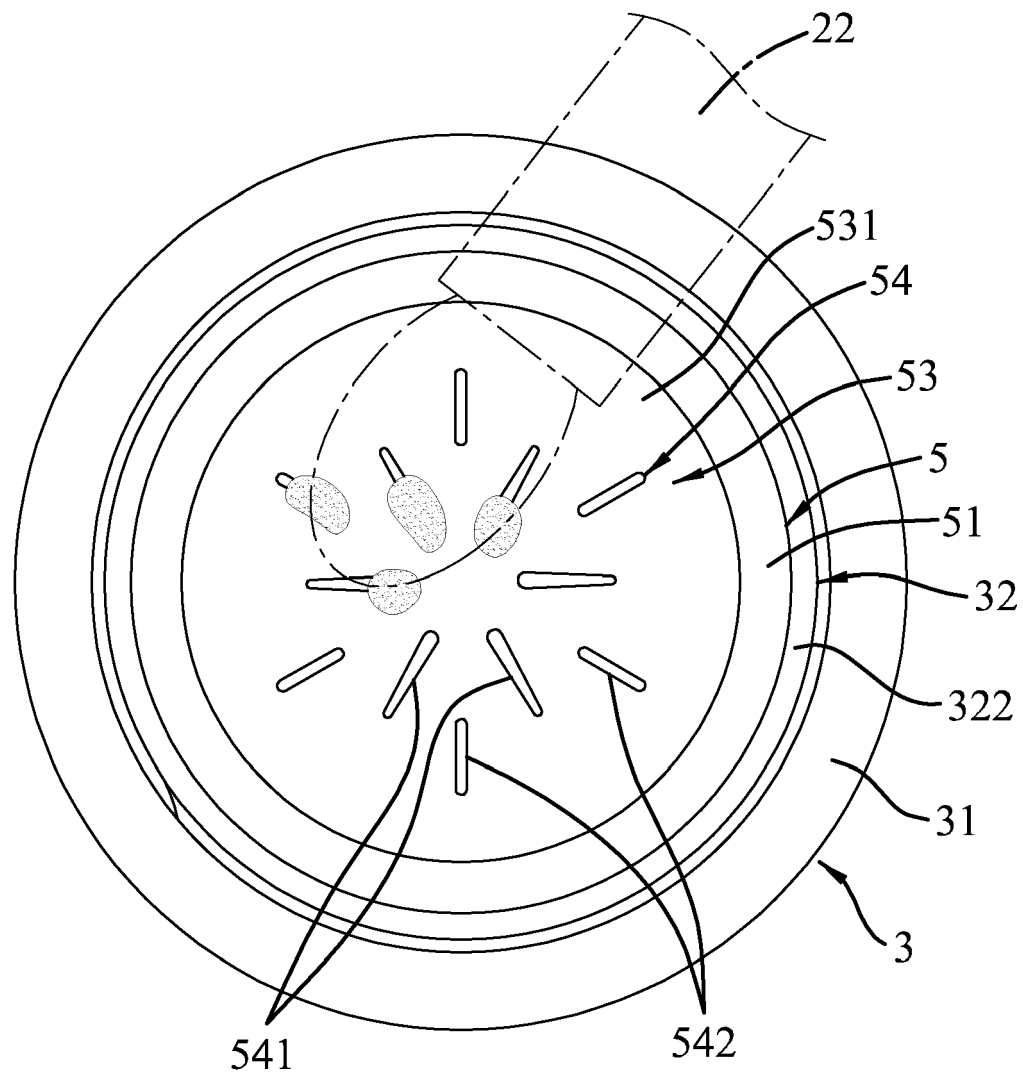


FIG.6

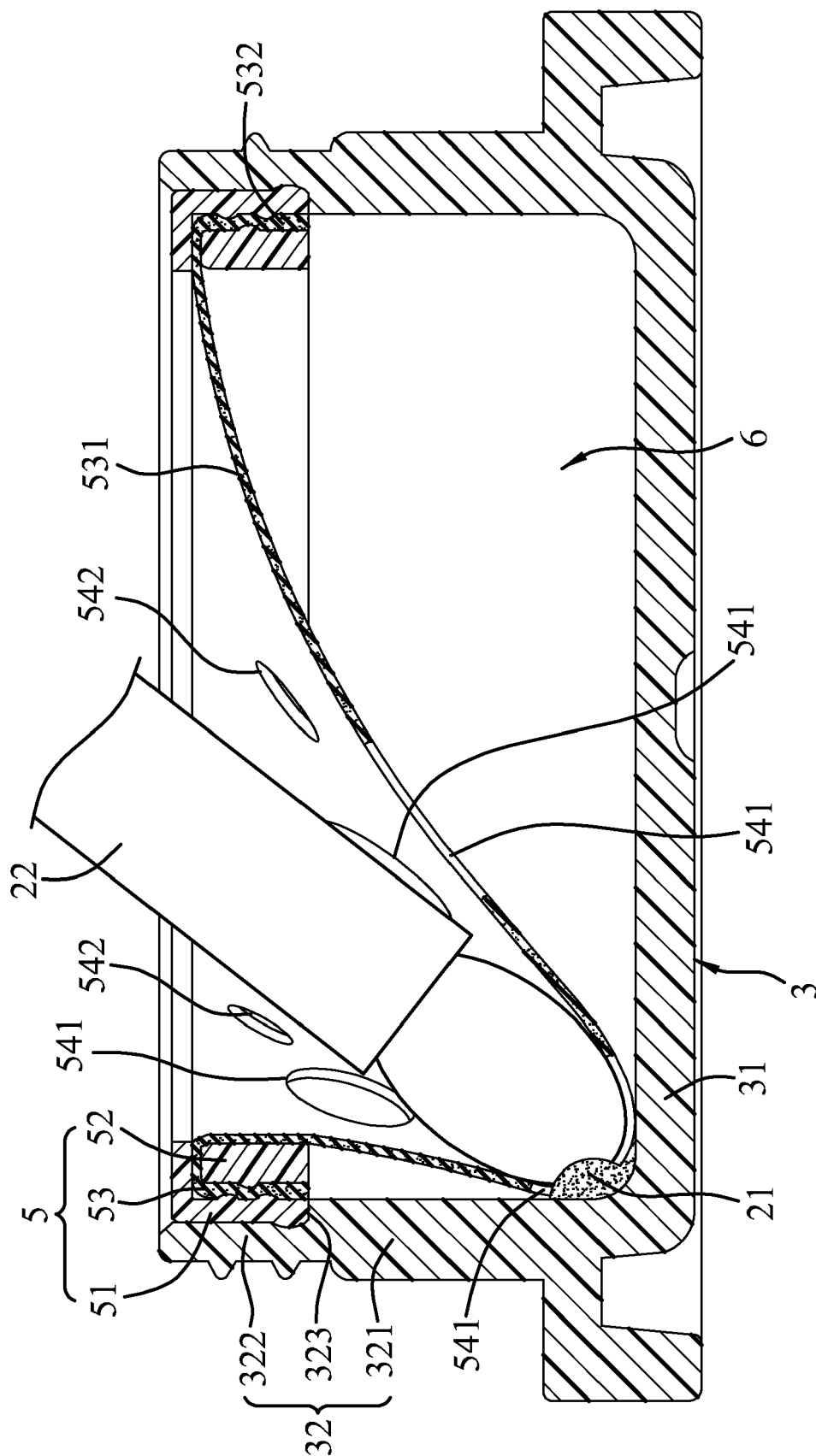


FIG. 7

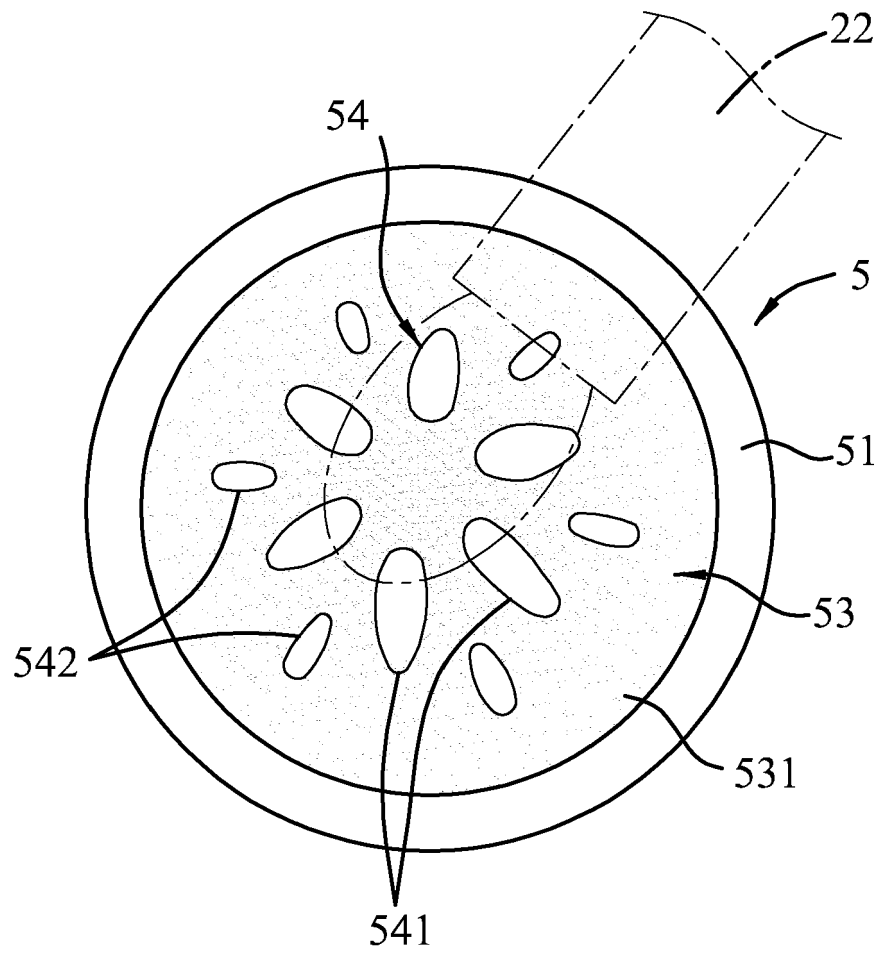


FIG.8



EUROPEAN SEARCH REPORT

Application Number
EP 18 16 9095

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Place of search The Hague		Date of completion of the search 12 October 2018	Examiner Witkowska-Piela, A
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**ANNEX TO THE EUROPEAN SEARCH REPORT
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
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