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(71) Demandeur/Applicant:
MANUFACTURAS INPLAST, S.A., ES

(72) Inventeur/Inventor:
GARCIA ALBEROLA, JOSE MARIA, ES

(74) Agent: PRAXIS

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(54) Title: LID FOR BEVERAGE BOTTLE OR SIMILAR CONTAINER

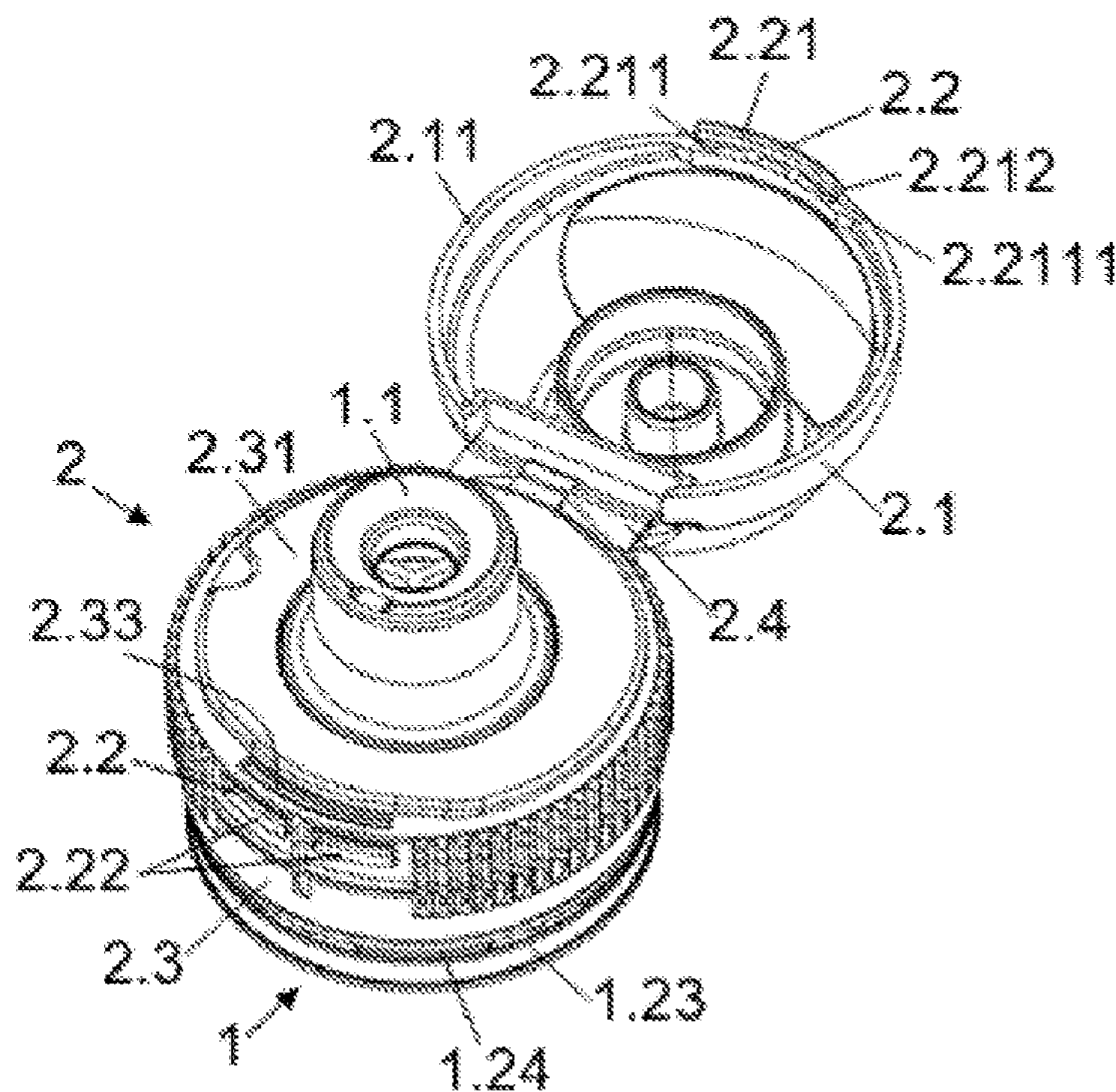


Fig. 1

(57) **Abrégé/Abstract:**

The present invention relates to a cap for a drink bottle or similar recipient, which comprises: a base element comprising a nipple for drinking and a substantially tubular portion designed to be secured to a neck of the bottle or recipient; a covering element that

(57) **Abrégé(suite)/Abstract(continued):**

comprises a lowerable top designed to hermetically seal the drinking nipple of the base element; and anti-tamper means of the top designed to provide a visual indication of whether the top has already been removed once from the drinking nipple. The covering element comprises a tubular portion designed to be secured to the outside of the substantially tubular portion of the base element, and the anti-tamper means of the top comprise an interlocking element extending from a lower border of the top, the interlocking element being designed to clip through the inside of a front opening of the tubular portion of the covering element.

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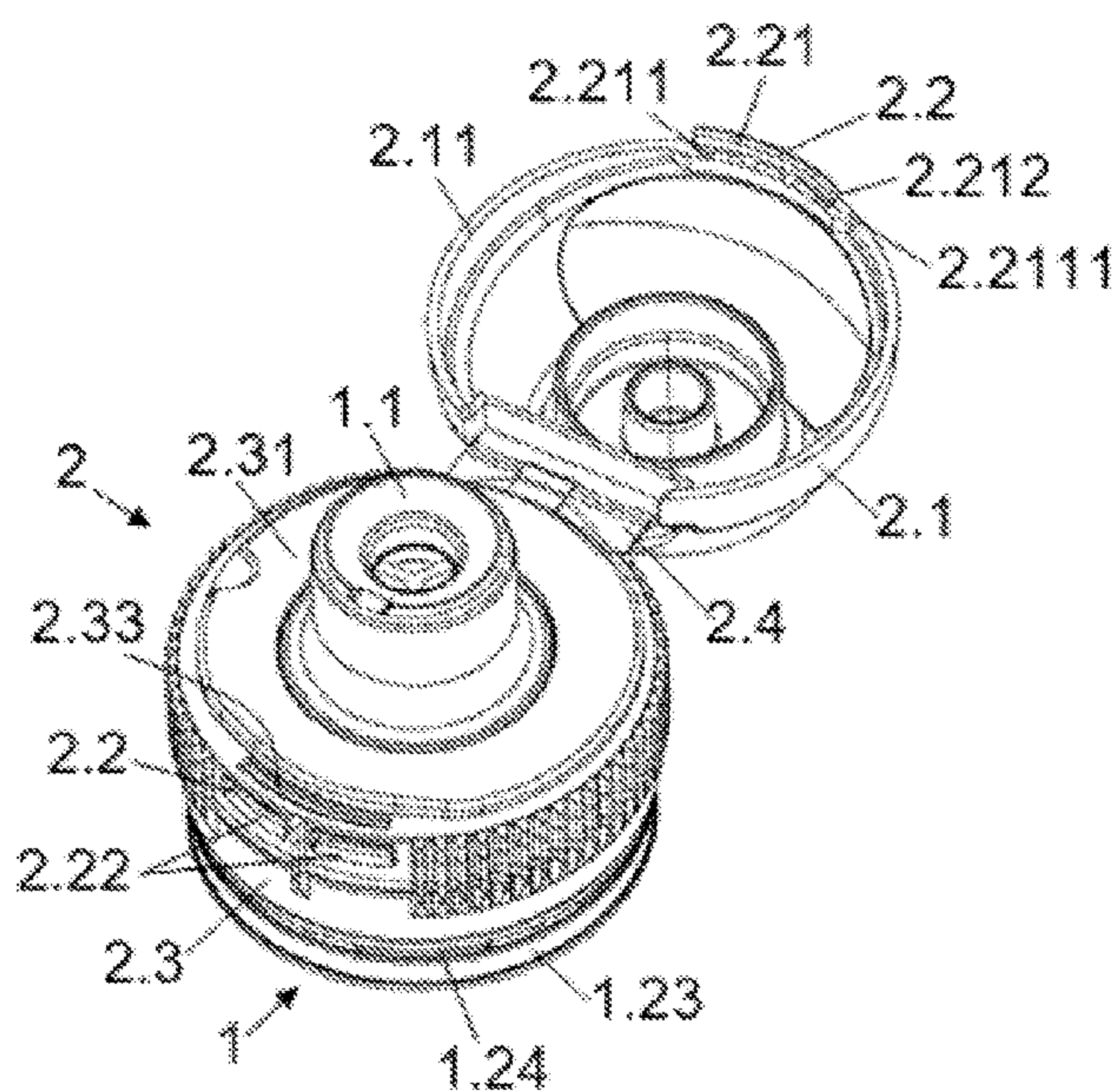
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[ES/ES]; Avda. de Navarra 162-164, 03680 ASPE (ALICANTE) (ES).

(54) Title: CAP FOR A DRINK BOTTLE OR SIMILAR RECIPIENT

(54) Título: TAPÓN PARA BOTELLA DE BEBIDA O RECIPIENTE SIMILAR

**Fig.1**

(57) **Abstract:** The present invention relates to a cap for a drink bottle or similar recipient, which comprises: a base element comprising a nipple for drinking and a substantially tubular portion designed to be secured to a neck of the bottle or recipient; a covering element that comprises a lowerable top designed to hermetically seal the drinking nipple of the base element; and anti-tamper means of the top designed to provide a visual indication of whether the top has already been removed once from the drinking nipple. The covering element comprises a tubular portion designed to be secured to the outside of the substantially tubular portion of the base element, and the anti-tamper means of the top comprise an interlocking element extending from a lower border of the top, the interlocking element being designed to clip through the inside of a front opening of the tubular portion of the covering element.

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(57) Resumen: Tapón para botella de bebida o recipiente similar que comprende un elemento base que comprende un chupete para beber y una porción sustancialmente tubular adaptada para ser asegurado a un cuello de la botella o recipiente, un elemento de cubierta que comprende un capuchón abatible adaptado para obturar de manera hermética el chupete para beber del elemento base, y unos medios de inviolabilidad del capuchón adaptados para proporcionar una indicación visual de si el capuchón ya ha sido removido una primera vez del chupete para beber;el elemento de cubierta comprende una porción tubular adaptada para ser asegurada al exterior de la porción sustancialmente tubular del elemento base, y los medios de inviolabilidad del capuchón comprenden un elemento de enclavamiento extendido desde un borde inferior del capuchón;donde,el elemento de enclavamiento está adaptado para engarzar por el interior de una ventana frontalde la porción tubular.

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LID FOR BEVERAGE BOTTLE OR SIMILAR CONTAINER**TECHNICAL FIELD OF THE INVENTION**

5 The present invention is encompassed in the field of lids that are arranged on the neck of a beverage bottle or similar container with a view to promoting its hermetic closure, as well as leaving indications of whether, where appropriate, said lid has already been opened.

10

BACKGROUND OF THE INVENTION

Various types of closure devices are known which couple to the necks of bottles or similar containers in the manner of a lid. Generally, said lids are made of moulded plastic, and comprise a substantially tubular base element, adapted to be secured to the neck of the bottle or similar container, and a removable cap, normally, foldably joined to the base element, for example, by means of a hinge section.

The cap is adapted to hermetically seal an outlet spout or drinking mouthpiece of the base element. Thus, in a first position of use of the lid, the cap is closing the mouthpiece for drinking the liquid from the bottle, and then, in a second position of use, said cap is uncoupled from the drinking mouthpiece, for example, when the user is about to consume the liquid contained in the bottle. Likewise, before the first use of the lid, that is, before the cap is removed for the first time from the drinking mouthpiece of the base element, it is common that the cap and the base element, in addition to being joined by the hinge section, are connected to each other by tamper-proof means, which, when broken, at least partially, the first time the lid is opened, provide the user with clues or a visual indication that said lid has been opened previously.

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The existence of any solution in the state of the art showing similar characteristics to those presented by the invention described herein is not known by the applicant.

5

DESCRIPTION OF THE INVENTION

This invention is established and characterised in the independent claims, while the dependent claims describe
10 other characteristics thereof.

The object of the invention is a lid to be secured to the neck of a beverage bottle or similar container.

The lid comprises:

- 15 - a base element comprising an upper drinking mouthpiece and a substantially tubular lower portion adapted so that the base element can be secured to the neck of the beverage bottle or similar container,
- a cover element comprising a flip cap adapted to
20 hermetically seal the drinking mouthpiece of the base element, and
- tamper-proof means of the cap adapted to provide a visual indication of whether the cap has already been removed for a first time from the drinking mouthpiece.

25

Additionally, the cover element comprises a tubular portion, which is adapted to be secured to the outside of the substantially tubular portion of the base element.

30 For its part, the tamper-proof means of the cap comprise an interlocking element extended from a lower edge of the cap. The interlocking element is adapted to latch through the inside of a front window of the tubular portion.

35 Thus, when attempting to remove the cap from the drinking mouthpiece for the first time, the interlocking element breaks and falls from the front window of the tubular

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portion that retained it, so the back of said front window is no longer visible, which provides a visual indication that the cap has already been removed and that the contents of the bottle may have been tampered with.

5

BRIEF DESCRIPTION OF THE DRAWINGS

This specification is supplemented by a set of drawings illustrating the preferred embodiment but which are never
10 intended to limit the invention.

Figure 1 represents a top perspective view of the lid for beverage bottles or similar containers with the cap in the open position.

15

Figure 2 represents a top perspective view of the lid of Figure 1 with the cap in the closed position.

Figure 3 represents an exploded side view of the lid of
20 Figures 1 and 2, with the cap in the open position.

Figure 4 represents a sectional side view of the lid of Figures 1 and 2, with the cap in the closed position.

25 Figure 5 represents an enlarged detail of Figure 4.

Figure 6 represents a top perspective view of the base element of the lid of Figures 1 and 2.

30 DETAILED DESCRIPTION OF THE INVENTION

The present invention is a lid for a beverage bottle or similar container.

35 As shown in the figures, the lid comprises:

- a base element (1), shown in Figures 3 to 6, comprising an upper drinking mouthpiece (1.1) and a substantially

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tubular lower portion (1.2) adapted so that the base element (1) can be secured to a neck of the container (not shown in the figures),

- a cover element (2), shown in Figures 1 to 4, comprising a flip cap (2.1) adapted to hermetically seal the drinking mouthpiece (1.1) of the base element (1), and
- tamper-proof means (2.2) of the cap (2.1) adapted to provide a visual indication of whether the cap (2.1) has already been removed for a first time from the drinking mouthpiece (1.1).

The cover element (2) comprises a tubular portion (2.3) adapted to be secured to the outside of the substantially tubular portion (1.2) of the base element (1). See Figures 3 and 4.

Additionally, as shown in Figures 1 and 3, it is preferred that the cover element (2) comprises a hinge section (2.4), which joins the cap (2.1) to the tubular portion (2.3). Thus, it is possible to arrange the cap (2.1) in one of two positions of use of the lid, that is, a first position in which the cap (2.1) is coupled to the base element (1) obstructing the drinking mouthpiece (1.1), and a second position in which said cap (2.1) is uncoupled from the drinking mouthpiece (1.1), for example, for when the user is about to consume the liquid contained in the bottle or similar container.

Preferably, the hinge section (2.4) is arranged on the opposite side of the tamper-proof means (2.2). That is, it is preferred that the hinge section (2.4) and the tamper-proof means (2.2) be arranged on opposite sides of the lid.

35

For their part, the tamper-proof means (2.2) of the cap (2.1) comprise an interlocking element (2.21), extended

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from a lower edge (2.11) of the cap (2.1) and adapted to latch through the inside of a front window (2.22) made in the tubular portion (2.3).

5 Preferably, as shown in Figure 3, the interlocking element (2.21) comprises a tab (2.211). The tab (2.211) ends in a front projection (2.212), extended towards the outside of the cap (2.1), which is the portion of the interlocking element (2.21) that latches through the
10 inside of the front window (2.22). See Figures 2 and 4.

Thus, as a result of coupling the cap (2.1) to the drinking mouthpiece (1.1) of the base element (1) for the first time, the interlocking element (2.21) is caused to
15 pass through an upper slit (2.33) (shown in Figure 1), made in the upper side of the tubular portion (2.2) of the cover element (2), to finally latch through the inside of the front window (2.22).

20 The front projection (2.212) of the interlocking element (2.21) is preferred to be shaped frontally with a sloping surface that descends towards its free end, which facilitates the insertion of the interlocking element (2.21) through the upper slit (2.33), to then latch its
25 front projection (2.212) into the front window (2.22).

In this way, the front projection (2.212) is retained in the front window (2.22), and looking through the latter, the front projection (2.212) can be seen at the back, an
30 indication that the closure of the tamper-proof means (2.2) of the cap (2.1) has been shaped, which provides the user with a visual indication of whether the cap (2.1) has already been removed for a first time from the drinking mouthpiece (1.1) of the base element (1).

35

The first time the opening of the lid is carried out, that is, when attempting for the first time to uncouple

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the cap (2.1) from the drinking mouthpiece (1.1), for example, by pressing upwards on a pushing projection (2.12) of the cap (2.1), said action, causes the tab (2.211) to break, the front projection (2.212) of the interlocking element (2.21) falling from the front window (2.22). The irreversible breakage of the tab (2.211) leaves clues or a visual indication that the lid was previously opened, since the front projection (2,212) is no longer visible at the back of said front window (2.22), whereby, the bottle contents may have been tampered with.

With a view to facilitating breakage of the tab (2.211) during the decoupling between the cap (2.1) and the drinking mouthpiece (1.1), it is preferred that said tab (2.211) comprises a weakening cut (2.2111).

On the other hand, it is preferred that the tubular portion (2.3) of the cover element (2) comprises an inner annular upper projection (2.31) adapted to fit in a cylindrical base wall (1.11) of the drinking mouthpiece (1.1), as well as, an inner annular lower projection (2.32) adapted to latch into an outer annular lower recess (1.21) of the substantially tubular portion (1.2) of the base element (1), when the cover element (2) is coupled to the base element (1). As shown in Figure 5, the latching between said projection (2.32) and recess (1.21) prevents the separation of the elements (1, 2).

Similarly, see Figures 3 and 6, it is preferred that the substantially tubular portion (1.2) of the base element (1) comprises outer longitudinal projections (1.22) adapted to couple to inner longitudinal projections (2.34) of the tubular portion (2.3), when the cover element (2) is coupled to the base element (1), in this case preventing the rotation of the cover element (2) with respect to the base element (1).

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For example, in the embodiment shown in Figures 3 and 6, the outer longitudinal projections (1.22) could be divided into groups, the latter, distributed equidistant from each other on the outside of the substantially tubular portion (1.2) of the base element (1), while the inner longitudinal projections (2.34) are conveniently distributed equidistant from each other on the inside of the tubular portion (2.3) of the cover element (2); wherein, when the coupling between both elements (1, 2) is carried out, an inner longitudinal projection (2.34) is tightly coupled between two outer longitudinal projections (1.22).

Additionally, as shown in Figure 3, it is preferred that the substantially tubular portion (1.2) of the base element (1) comprises a threaded interior (1.25) adapted to screw onto the neck of the bottle or similar container.

Likewise, the substantially tubular portion (1.2) of the base element (1) may comprise an inner circular projection (1.26) adapted to fit inside the neck of the bottle or similar container.

Finally, as shown in Figures 3 and 4, it is preferred that the substantially tubular portion (1.2) of the base element (1) comprises a retention band (1.23), which is interconnected to the lower edge of the substantially tubular portion (1.2) by means of a breakable discontinuous portion (1.24). The retention band (1.23) comprises either an inner annular projection (not shown in the figures) or a plurality of inner projections (1.231) adapted to hold the retention band (1.23) retained to an annular collar (not shown in the figures) of the neck of the bottle or similar container.

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Thus, when attempting to uncouple the lid from the neck of the bottle or container, for example, by unscrewing the base element (1), the breakable discontinuous portion (1.24) breaks, only the retention band (1.23) remaining
5 on the neck of the bottle.

The irreversible breakage of the breakable discontinuous portion (1.24), in this case, leaves evidence that the lid was previously removed from the neck of the bottle or
10 similar container.

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CLAIMS

1.- Lid for beverage bottle or similar container comprising:

- 5 - a base element (1) comprising an upper drinking mouthpiece (1.1) and a substantially tubular lower portion (1.2) adapted so that the base element (1) can be secured to a neck of the bottle or similar container,
- 10 - a cover element (2) comprising a flip cap (2.1) adapted to hermetically seal the drinking mouthpiece (1.1) of the base element (1), and
- tamper-proof means (2.2) of the cap (2.1) adapted to provide a visual indication of whether the cap (2.1)
- 15 has already been removed for a first time from the drinking mouthpiece (1.1),
- wherein, the cover element (2) comprises a tubular portion (2.3) adapted to be secured to the outside of the substantially tubular portion (1.2) of the base element
- 20 (1), and the tamper-proof means (2.2) of the cap (2.1) comprise an interlocking element (2.21) extended from a lower edge (2.11) of the cap (2.1), **characterised in** that the interlocking element (2.21) is adapted to latch through the inside of a front window (2.22) of the
- 25 tubular portion (2.3).

2. Device according to claim 1, wherein the interlocking element (2.21) comprises a tab (2.211) ending in a front projection (2.212).

30

3. Device according to claim 2, wherein the tab (2.211) comprises a weakening cut (2.2111).

4. Device according to claim 1, wherein the cover element

35 (2) comprises a hinge section (2.4) that joins the cap (2.1) to the tubular portion (2.3).

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5. Device according to claim 4, wherein the hinge section (2.4) is arranged on the opposite side of the tamper-proof means (2.2).

5 6. Device according to claim 1, wherein the tubular portion (2.3) of the cover element (2) comprises an inner annular upper projection (2.31) adapted to fit in a cylindrical base wall (1.11) of the drinking mouthpiece (1.1) and an inner annular lower projection (2.32)
10 adapted to latch into an outer annular lower recess (1.21) of the substantially tubular portion (1.2) of the base element (1), when the cover element (2) is coupled to the base element (1), preventing the separation of these elements (1, 2).

15

7. Device according to claim 1, wherein the substantially tubular portion (1.2) of the base element (1) comprises outer longitudinal projections (1.22) adapted to couple with inner longitudinal projections (2.34) of the tubular
20 portion (2.3), preventing the rotation of the cover element (2) with respect to the base element (1).

8. Device according to claim 1, wherein the substantially tubular portion (1.2) of the base element (1) comprises a
25 threaded interior (1.25) adapted to screw onto the neck of the bottle or similar container.

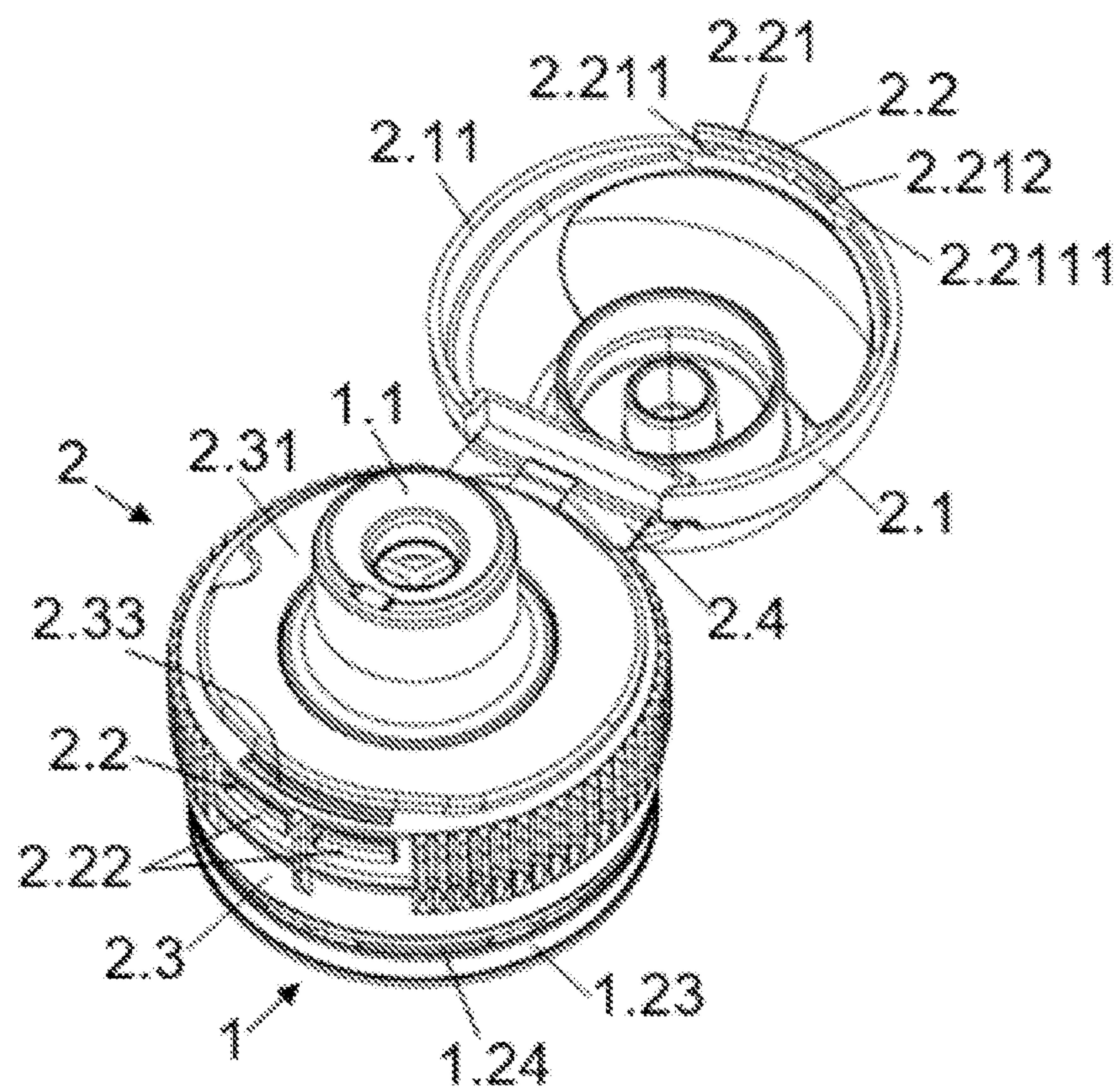
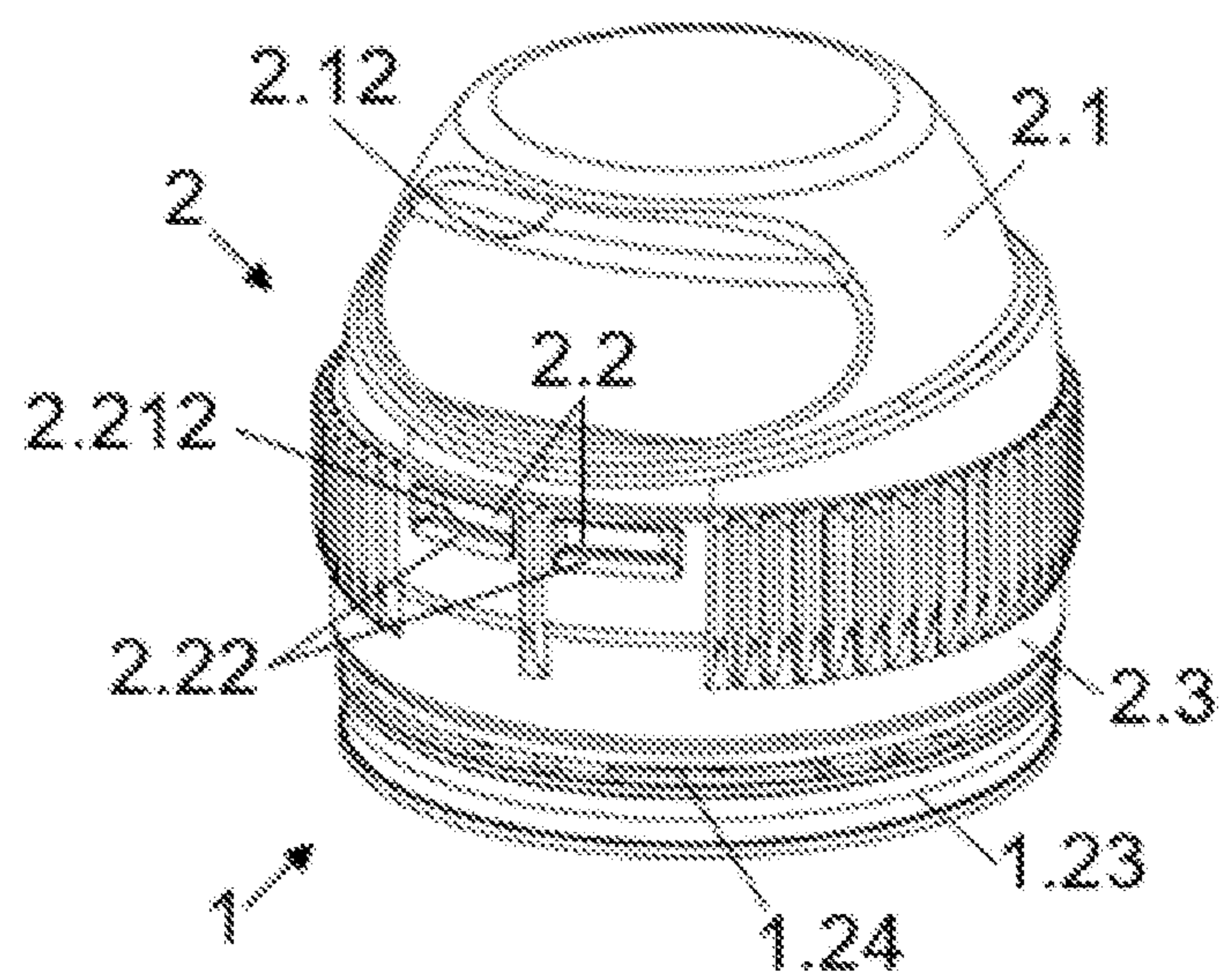
9. Device according to claim 1, wherein the substantially tubular portion (1.2) of the base element (1) comprises
30 an inner circular projection (1.26) adapted to fit inside the neck of the bottle or similar container.

10. Device according to claim 1, wherein the substantially tubular portion (1.2) of the base element
35 (1) comprises a retaining band (1.23) interconnected to its lower edge by means of a breakable discontinuous portion (1.24), the retention band (1.23) comprising a

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plurality of inner projections (1.231) adapted to hold the retention band (1.23) retained to an annular collar of the neck of the bottle or similar container.

-1/3-

**Fig.1****Fig.2**

-2/3-

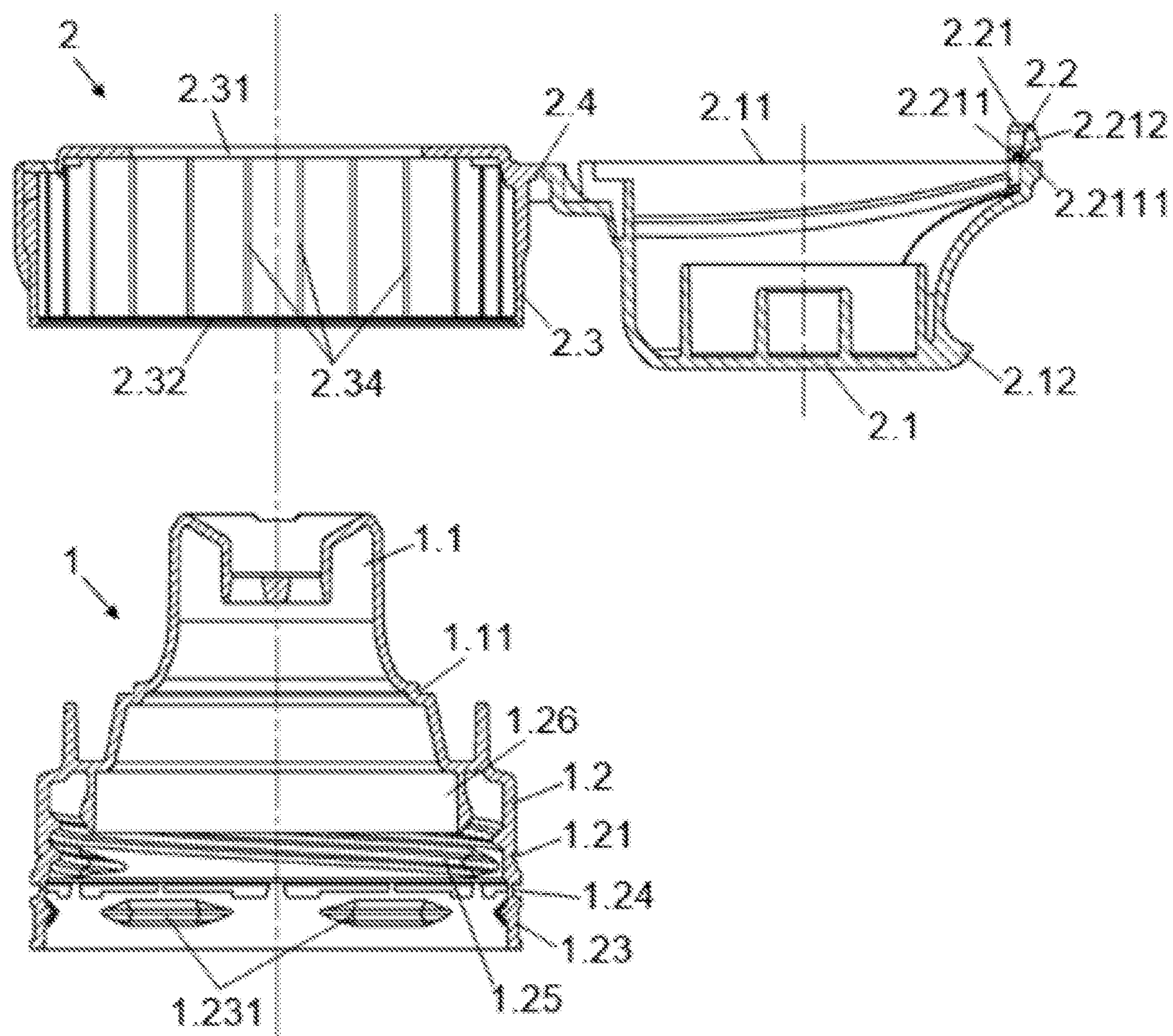


Fig.3

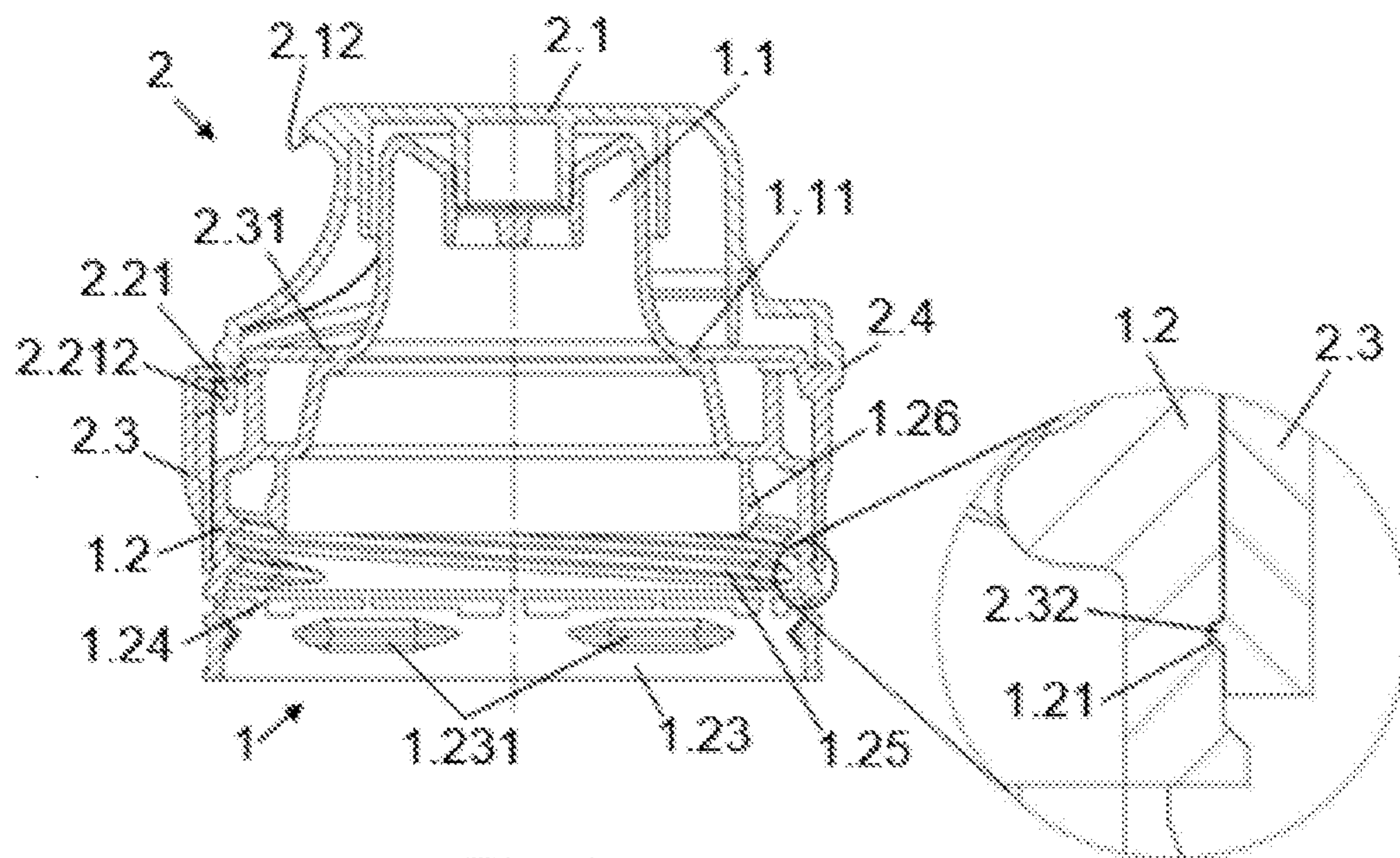


Fig. 4

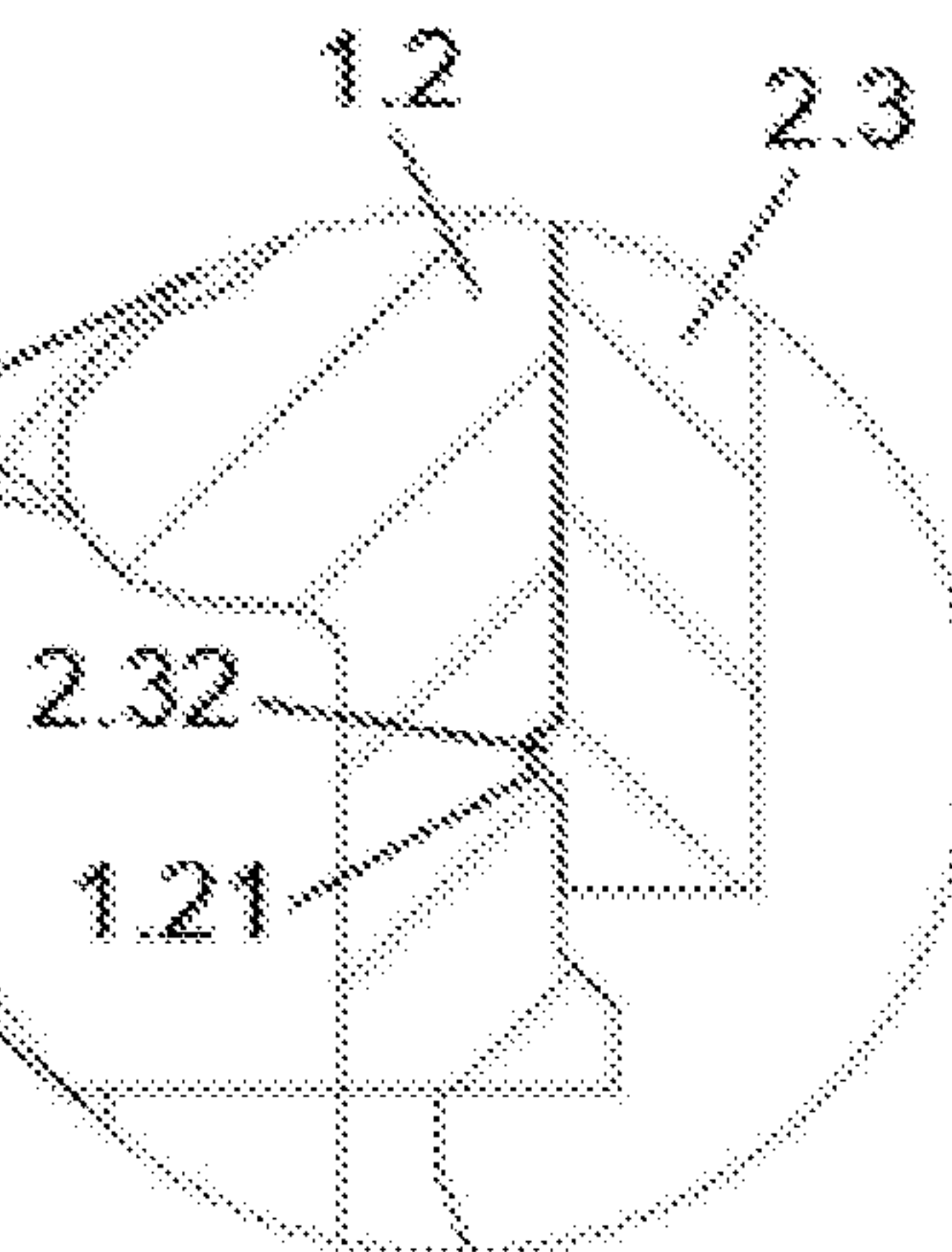


Fig. 5

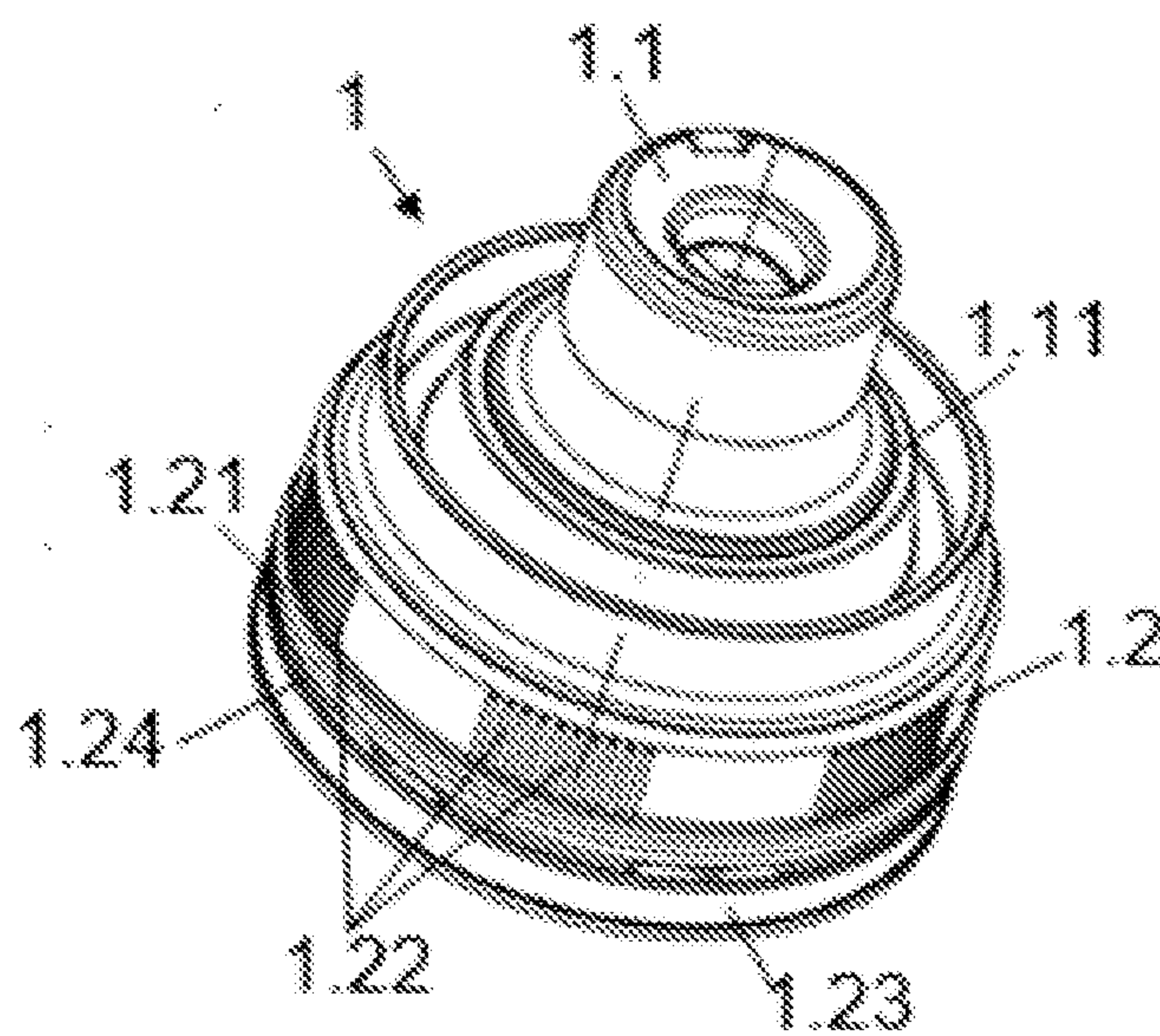


Fig. 6

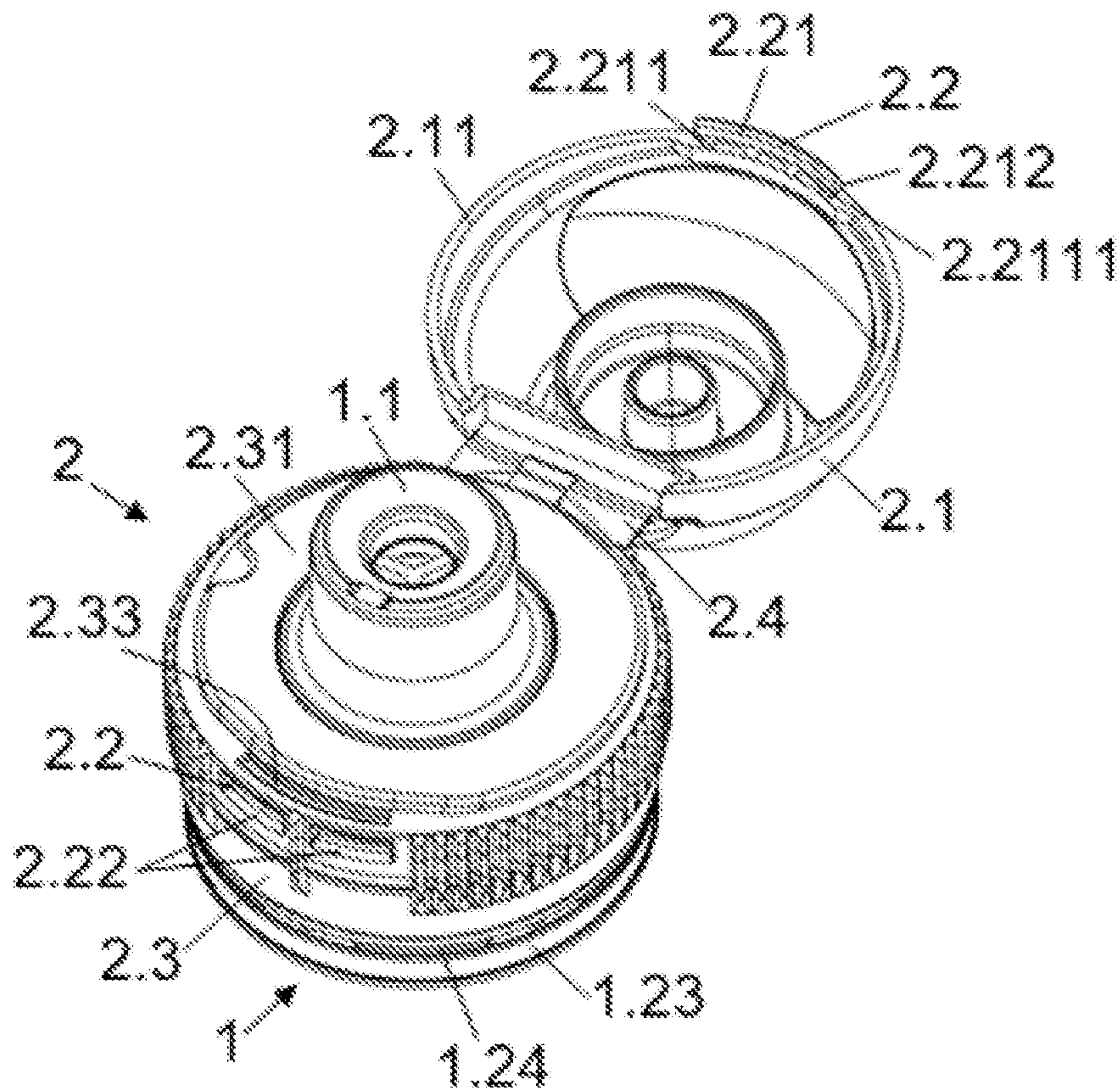


Fig.1