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(54) **HERMETIC LID-CONTAINER ASSEMBLY FOR FOOD WITH SIMPLIFIED CLOSURE**

HERMETISCHE DECKEL-BEHÄLTERANORDNUNG FÜR LEBENSMITTEL MIT VEREINFACHTEM
VERSCHLUSS

ENSEMBLE COUVERCLE-RÉCIPIENT HERMÉTIQUE POUR ALIMENTS À FERMETURE
SIMPLIFIÉE

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(56) References cited:
**EP-A1- 2 392 521 DE-A1- 19 535 943
DE-U1- 29 802 048**

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Description

Field of the Invention

[0001] The present invention generally relates to the technical field of lid-container assemblies for food, and it particularly has as object a hermetic lid-container assembly with simplified and quick closure.

Definitions

[0002] In the present text, the term "food use" or its derivatives with reference to a material, indicates the ability of said material to meet the requirements of the existing legislation at the time and in the country of interest.

[0003] In the present text, the term "monolithic manufacturing" or its derivatives with reference to at least two bodies, indicates that such bodies, as a consequence of this type of manufacturing, are composed of a single piece because their junction is suitable to support the move of traction forces or shear forces through the contact surface.

[0004] In the present document, the term "container" refers to any hollow object suitable for containing solid and / or liquid products.

Background of the invention

[0005] Different types of hermetic lid-container assembly are well known for food such as mozzarella, yogurt, ice cream or any other food that is at least partially liquid that needs to be kept in an airtight package.

[0006] Typically, the lid and the container can be coupled in various ways.

[0007] For example, lids and containers that can be 'screw' coupled or heat-sealed with subsequent 'tear-off' openings are well known.

[0008] Alternatively, packaging with pressure closure are well known, in which the lid is simply pressed onto the container until it is hermetically sealed.

[0009] In particular, the containers of such known packages have an external edge area with a flat surface slightly projecting with respect to the lateral surface of the container and susceptible to abut the lid when it is pressed on the perimeter of the edge area.

[0010] However, these known packages require a high amount of time in the production line, in particular in the food packaging phase.

[0011] Indeed, the coupling between the lid and the container requires special care in order to ensure the hermetic closure.

[0012] From DE 19535943 a hermetic lid-container assembly is known having all the features of the preamble of the independent claim.

Summary of the invention

[0013] Object of the present invention is to overcome,

at least partially, the drawbacks illustrated above, by providing a hermetic lid-container assembly that is easy to implement and relatively cost-effective.

[0014] Another object of the present invention is to provide a hermetic lid-container assembly being safe and quick to couple.

[0015] Another object of the present invention is to provide a hermetic lid-container assembly being able to counteract the leakage of any food and / or other liquids.

[0016] Another object of the present invention is to provide a hermetic lid-container assembly that is easy to use.

[0017] Another object of the present invention is to provide a hermetic lid-container assembly being able to extend the life of the product contained therein.

[0018] Such objects, as well as others that will be clearer hereinafter, are fulfilled by a hermetic lid-container assembly in accordance with what is defined in claim 1.

[0019] The dependent claims describe advantageous embodiments of the present invention.

Brief description of the drawings

[0020] Further features and advantages of the present invention will become more evident by reading the detailed description of some preferred but not exclusive embodiments of the invention, illustrated as a non-limiting example, with the help of the annexed drawings wherein:

FIG. 1A is a schematic front view of the assembly 1 of which **FIG. 1B** is the enlargement of a detail;

FIG. 2A is a schematic top view of the assembly 1; **FIG. 2B** is a sectional view along a plane I-I of the container 10 illustrated in **FIG. 2A**;

FIG. 3A is a sectional view along a plane I-I of the assembly 1 illustrated in **FIG. 2A**, of which **FIGs. 3B** and **3C** are enlargements of two different details.

Detailed description of some preferred embodiments

[0021] With reference to the above mentioned figures, it is here described a lid-container assembly 1 for the storage of one or more foods.

[0022] The food may be at least partially liquid, such as mozzarella in its preserving liquid, yogurt, stracchino, ice cream and the like.

[0023] Therefore, the assembly 1 is hermetic.

[0024] The assembly 1 includes a container 10 and a lid 20 that are coupled in a removable way.

[0025] The container 10 and the lid 20 have a cylindrical shape.

[0026] For example, as particularly illustrated in **FIGs. 1A** to **3C**, the assembly have a circular plan shape.

[0027] Advantageously, the lid 20 includes a cover wall 26 lying on a plane $\pi 2$ and a lateral surface 27.

[0028] The wall 26 includes an inner surface 21 and an opposite surface 28 susceptible to remain visible.

[0029] On the other hand, the container 10 has a main hollow body 11 with a lateral surface 17 and a back wall

16.

[0030] The lateral surface 17 and the back wall 16 define a compartment 1617 and an opening 1618, where the compartment 1617 contain the food, and the opening 1618 allow its introduction.

[0031] Furthermore, the lateral surface 17 includes an edge area 12 with a perimeter portion 121 extending along its perimeter in correspondence with the opening 1618.

[0032] In particular, the walls 26 and 16 and the walls 27 and 17 face each other when the container 10 and the lid 20 are coupled.

[0033] More particularly, the perimeter portion 121 comes into contact with the same inner surface 21 of the wall 26.

[0034] The edge area 12 includes a planar surface 14 projecting with respect to the same edge area 12 and lying on a plane $\pi 1$.

[0035] For example, the planar surface 14 is a laminar projection having annular shape, in the event the body 11 is cylindrical.

[0036] Furthermore, the planar surface 14 has a perimeter portion 141 extending along the perimeter of the latter.

[0037] Preferably, the plane $\pi 1$ and the lateral surface 17 may be incident.

[0038] Suitably, the edge area 12 includes a surface 15 interposed between the perimeter portion 121 and the surface 14.

[0039] Preferably, the surface 15 and the surface 14 are incident with one another.

[0040] According to a preferred but not exclusive embodiment of the invention, the same surfaces will be reciprocally perpendicular.

[0041] Advantageously, the container 10 and the lid 20 include means for the mutual connection and disconnection.

[0042] Preferably, such means will be snap-in connection means, and even more preferably of male - female type.

[0043] In this way, the coupling between the container 10 and the lid 20 will be quick, thus ensuring the hermetic sealing of the latter.

[0044] Moreover, it may be possible to couple and decouple again the same container 10 and lid 20 for an indefinite number of times.

[0045] The container 10 includes connecting means 30 of male type, while the lid 20 includes connecting means 40 of female type.

[0046] It is however understood that the opposite may occur, that is to say that the container 10 may include connecting means of female type while the lid 20 may include connecting means of male type, without departing from the scope of the appended claims.

[0047] According to a preferred but not exclusive example, more specifically shown in FIG. 3B, the connecting means 30 may include a projection 31 made in correspondence of the perimeter portion 121 of the edge

area 12.

[0048] On the other hand, the connecting means 40 may include a counter-shaped recess 41 and made in correspondence of the surface 21.

5 [0049] It is understood that the projection 31 and the recess 41 will be suitably dimensioned in order to ensure the joint mutual connection, as well as the hermetic sealing of the assembly 1.

[0050] Advantageously, the container 10 and the lid 20 include means for the reciprocal centering.

[0051] Such means will be particularly useful during the food packing, in order to avoid misalignments between the container 10 and the lid 20, thus ensuring a rapid and hermetic closure.

10 [0052] To this end, the surface 14 includes a projection 13 extending along the same surface, at an average distance d from the perimeter portion 141, as specifically shown in FIG. 3C.

[0053] In particular, the distance d may be calculated between the external area of the perimeter portion 141 and the external area of the projection 13.

[0054] In particular, the projection 13 has an abutment portion 1323 opposite to the lateral surface 17 and susceptible to face the lateral surface 27 when the container 10 and the lid 20 are coupled.

25 [0055] On the other hand, the lateral surface 27 of the lid 20 may include centering means 23 with a counter-acting portion 2313 susceptible to come into contact with the abutment portion 1323 during the coupling between the container 10 and the lid 20.

[0056] In this way, the planes $\pi 1$ and $\pi 2$ will be substantially parallel and a hermetic connection between the container 10 and the lid 20 may be obtained.

30 [0057] In order to favor such process, the centering means 23 may include a lead surface 24 made in correspondence of the surface 21.

[0058] For example, such lead surface 24 may be a ribbing adjacent to the recess 41, as specifically shown in FIG. 3B.

40 [0059] It is understood that the same lead surface 24 may include a portion 241 defining a wall of the recess 41.

[0060] In other words, the latter will be laterally bordered, at least partially, by the portion 241 and by the lateral surface 27.

45 [0061] In this way, a quick and correct connection between the recess 41 and the projection 13 will be favored.

[0062] It is therefore understood that the centering means will speed up the food packaging.

[0063] Indeed, it will be possible to insert the food in the main body 11, to put the lid 20 on the container 10, reciprocally centered with the aid of the abovementioned centering means, and to press the same lid 20 until closure.

50 [0064] Moreover, the average distance d between the projection 13 and the perimeter 141 may be dimensioned, in a per se known way, in order to prevent possible unintentional decouplings between the lid 20 and the container 10.

[0065] In particular, the edges of the lateral surface **27** of the lid **20** may be completely contained within the perimeter portion **141** or they may be aligned with it.

[0066] Moreover, as guarantee of the non-opening of the lid **20**, the latter may include a seal portion **22**.

[0067] The seal portion **22** may be at least partially removed in a per se known way, in order to allow the decoupling between the lid **20** and the container **10** and to allow the extraction of food.

[0068] According to a preferred but not exclusive embodiment, all the elements of the container **10** and of the lid **20** may be made of co-molded materials.

[0069] Advantageously, the used materials may be for food use.

[0070] The present invention comprises several similar or identical parts and/or elements. Unless otherwise specified, similar or identical parts and/or elements will be indicated with a single reference number, meaning that the described technical characteristics are common to all the similar or identical parts and/or elements.

[0071] From what described above, it is clear that the invention reaches the intended purposes.

[0072] The invention is susceptible to numerous modifications and changes. All the details may be replaced by other technically equivalent elements, and the materials may be different depending on requirements, without departing from the scope of the invention defined in the appended claims.

Claims

1. A hermetic lid - container assembly for the storage of at least one at least partially liquid food, comprising:

- a cylindrical shaped container **(10)** with a main hollow body **(11)** for the at least one food defining an axis, said main hollow body **(11)** having a first lateral surface **(17)** and a back wall **(16)**, said first lateral surface **(17)** and said back wall **(16)** defining a compartment **(1617)** and an opening **(1618)**, said lateral surface **(17)** including at least one edge area **(12)** with a perimeter portion **(121)** extending along its perimeter in correspondence with said opening **(1618)**, said edge area **(12)** including a first planar surface **(14)** being a laminar projection having annular shape and defining a first plane ($\pi 1$) perpendicular to said axis, said edge area **(12)** including a second surface **(15)** interposed between said perimeter portion **(121)** and said first surface **(14)**,
- a substantially cylindrical planar lid **(20)** including a second lateral surface **(27)** and a cover wall **(26)** defining a second plane ($\pi 2$) and having an inner surface **(21)** and an opposite surface **(28)** susceptible to remain visible, said lid **(20)** being mutually removably coupleable with

said main body **(11)** in correspondence of said edge area **(12)**;

wherein when said container **(10)** and said lid **(20)** are coupled, said cover wall **(26)** and said back wall **(16)** are susceptible to face each other, said second lateral surface **(27)** and said first lateral surface **(17)** being susceptible to face each other, said first perimeter portion **(121)** coming into contact with said inner surface **(21)** of said cover wall **(26)**;

wherein said edge area **(12)** of said container **(10)** and said lid **(20)** respectively include first and second snap-in connection means **(30, 40)** that are mutually removable, the first being of male type, the others being of female type, so that said container **(10)** and said lid **(20)** can be mutually coupleable to define a unitary assembly and can be uncoupleable in order to allow the extraction of the at least one food; and

wherein said at least one first planar surface **(14)** of said container **(10)** and said lid **(20)** respectively include first and second reciprocal centering means **(13, 23)**, said first centering means including at least one first projection **(13)** which includes at least one first abutment portion **(1323)**, said second centering means **(23)** including at least one second counteracting portion **(2313)** susceptible to interact with said at least one first abutment portion **(1323)** upon mutual coupling of said container **(10)** and said lid **(20)** so that said first and second planes ($\pi 1, \pi 2$) are substantially parallel;

wherein said at least one second surface **(15)** comprises at least one second projection **(31)** defining said male connection means **(30)**, said first and second projections **(13, 31)** being mutually spaced;

wherein said at least one first planar surface **(14)** includes a second perimeter portion **(141)**, the latter and said at least one first projection **(13)** being mutually spaced apart by a predetermined distance **(d)** to prevent accidental uncoupling of said container **(10)** and said lid **(20)** when they are mutually coupled;

characterized in that said first planar surface **(14)** is perpendicular to the second surface **(15)** and projects from said edge area **(12)** of said first lateral surface **(17)** to define said first plane ($\pi 1$), said at least one first projection **(13)** extending from said at least one first planar surface **(14)**.

2. Assembly according to claim 1, wherein said inner surface **(21)** of said cover wall **(26)** includes said female connection means **(40)**, the same including a recess **(41)** mutually counter-shaped with respect to said at least one second projection **(31)** to allow the hermetic removable coupling thereof.

3. Assembly according to any one of the preceding claims, wherein said second centering means (23) include at least one lead surface (24) to favor the connection between said first and second connection means (30, 40) upon mutual coupling of said container (10) and said lid (20) so that said first and second planes ($\pi 1$, $\pi 2$) are substantially parallel. 5
4. Assembly according to claims 2 or 3, wherein said lead surface (24) and said at least one recess (41) are mutually adjacent. 10
5. Assembly according to any one of the preceding claims, wherein said lid (20) includes a seal portion (22) at least partially removable so as to guarantee the non-uncoupling of said container (10) and lid (20) and in order to allow the extraction of said at least one food once removed. 15
6. Assembly according to any one of the preceding claims, wherein said main body (11), said first planar surface (14), said first connection means (30) and said first centering means (13) are made of food use material, the same being preferably co-molded. 20

Patentansprüche

1. Eine hermetische Deckel-Behälter-Anordnung für die Aufbewahrung mindestens eines zumindest teilweise flüssigen Lebensmittels, umfassend: 30

einen zylindrisch geformten Behälter (10) mit einem Haupthohlkörper (11) für das mindestens eine Lebensmittel, der eine Achse definiert, wobei der Haupthohlkörper (11) eine erste Seitenfläche (17) und eine Rückwand (16) aufweist, wobei die erste Seitenfläche (17) und die Rückwand (16) ein Fach (1617) und eine Öffnung (1618) definieren, wobei die Seitenfläche (17) mindestens einen Randbereich (12) mit einem Umfangsabschnitt (121) aufweist, der sich entlang seines Umfangs in Übereinstimmung mit der Öffnung (1618) erstreckt, wobei der Randbereich (12) eine erste ebene Fläche (14) aufweist, die eine laminare Projektion mit ringförmiger Gestalt ist und eine erste Ebene ($\pi 1$) senkrecht zu der Achse definiert, wobei der Randbereich (12) eine zweite Fläche (15) aufweist, die zwischen dem Umfangsabschnitt (121) und der ersten Fläche (14) angeordnet ist, einen im Wesentlichen zylindrischen, ebenen Deckel (20) mit einer zweiten Seitenfläche (27) und einer Abdeckwand (26), der eine zweite Ebene ($\pi 2$) definiert und eine Innenfläche (21) und eine gegenüberliegende Fläche (28) aufweist, die sichtbar bleiben kann, wobei der Deckel (20) mit dem Hauptkörper (11) in Überein-

stimmung mit dem Randbereich (12) gegenseitig abnehmbar gekoppelt werden kann; wobei, wenn der Behälter (10) und der Deckel (20) gekoppelt sind, die Abdeckwand (26) und die Rückwand (16) einander zugewandt werden können, wobei die zweite Seitenfläche (27) und die erste Seitenfläche (17) einander zugewandt werden können, wobei der erste Umfangsabschnitt (121) in Kontakt mit der Innenfläche (21) der Abdeckwand (26) kommt; wobei der Randbereich (12) des Behälters (10) und des Deckels (20) jeweils eine erste und eine zweite Einrastverbindungseinrichtung (30, 40) aufweisen, die gegenseitig entfernbar sind, wobei die erste vom Einstecktyp und die andere vom Aufnahmetyp ist, so dass der Behälter (10) und der Deckel (20) gegenseitig koppelbar sind, um eine einheitliche Anordnung zu definieren, und entkoppelbar sind, um die Entnahme des mindestens einen Lebensmittels zu ermöglichen; und wobei die mindestens eine erste ebene Fläche (14) des Behälters (10) und des Deckels (20) jeweils erste und zweite wechselseitige Zentriermittel (13, 23) umfassen, wobei die ersten Zentriermittel mindestens einen ersten Vorsprung (13) umfassen, der mindestens einen ersten Anschlagabschnitt (1323) aufweist, wobei das zweite Zentriermittel (23) mindestens einen zweiten entgegenwirkenden Abschnitt (2313) aufweist, der dazu geeignet ist, mit dem mindestens einen ersten Anschlagabschnitt (1323) beim gegenseitigen Koppeln des Behälters (10) und des Deckels (20) zusammenzuwirken, so dass die erste und die zweite Ebene ($\pi 1$, $\pi 2$) im Wesentlichen parallel sind; wobei die mindestens eine zweite Fläche (15) mindestens einen zweiten Vorsprung (31) aufweist, der das Steckverbindungsmittel (30) definiert, wobei der erste und der zweite Vorsprung (13, 31) voneinander beabstandet sind; wobei die mindestens eine erste ebene Fläche (14) einen zweiten Umfangsabschnitt (141) aufweist, wobei der letztere und der mindestens eine erste Vorsprung (13) um einen vorbestimmten Abstand (d) voneinander beabstandet sind, um ein unbeabsichtigtes Entkoppeln des Behälters (10) und des Deckels (20) zu verhindern, wenn sie miteinander verbunden sind; **dadurch gekennzeichnet, dass** die erste ebene Fläche (14) senkrecht zu der zweiten Fläche (15) ist und von dem Randbereich (12) der ersten Seitenfläche (17) vorsteht, um die erste Ebene ($\pi 1$) zu definieren, wobei sich der mindestens eine erste Vorsprung (13) von der mindestens einen ersten ebenen Fläche (14) aus erstreckt.

2. Anordnung nach Anspruch 1, wobei die Innenfläche

- (21) der Abdeckwand (26) die Einstecktyp-Einrast-
 verbindungseinrichtung (40) enthält, die eine Aus-
 nahme (41) aufweist, die in Bezug auf den min-
 destens einen zweiten Vorsprung (31) konterförmig
 geformt ist, um dessen hermetisch abnehmbare Ver-
 bindung zu ermöglichen. 5
3. Anordnung nach einem der vorhergehenden An-
 sprüche, wobei die zweiten Zentriermittel (23) min-
 destens eine Führungsfläche (24) aufweisen, um die
 Verbindung zwischen den ersten und zweiten Ver-
 bindungsmitteln (30, 40) beim gegenseitigen Kop-
 peln des Behälters (10) und des Deckels (20) zu be-
 günstigen, so dass die ersten und zweiten Ebenen
 ($\pi 1$, π) im Wesentlichen parallel sind. 10 15
4. Anordnung nach Anspruch 2 oder 3, wobei die Füh-
 rungsfläche (24) und die mindestens eine Ausneh-
 mung (41) aneinandergrenzen. 20
5. Anordnung nach einem der vorhergehenden An-
 sprüche, wobei der Deckel (20) einen zumindest teil-
 weise abnehmbaren Dichtungsabschnitt (22) auf-
 weist, um die Nicht-Entkopplung des Behälters (10)
 und des Deckels (20) zu gewährleisten und um die
 Entnahme des mindestens einen Lebensmittels zu
 ermöglichen, sobald er abgenommen ist. 25 30
6. Anordnung nach einem der vorhergehenden An-
 sprüche, wobei der Hauptkörper (11), die erste ebe-
 ne Fläche (14), das erste Verbindungsmittel (30) und
 das erste Zentriermittel (13) aus lebensmittelechtem
 Material hergestellt sind, wobei diese vorzugsweise
 gemeinsam geformt sind. 35

Revendications

1. Ensemble couvercle-récipient hermétique pour le
 stockage d'au moins un aliment au moins partiellement liquide, comprenant: 40
- un récipient de forme cylindrique (10) avec un
 corps creux principal (11) pour l'au moins un ali-
 ment définissant un axe, ledit corps creux prin-
 cipal (11) ayant une première surface latérale
 (17) et une paroi arrière (16), ladite première
 surface latérale (17) et ladite paroi arrière (16)
 définissant un compartiment (1617) et une
 ouverture (1618), ladite surface latérale (17)
 comprenant au moins une zone de bord (12)
 avec une partie périmétrique (121) s'étendant
 le long de son périmètre en correspondance
 avec ladite ouverture (1618), ladite zone de bord
 (12) comprenant une première surface plane
 (14) étant une protubérance laminaire de forme
 annulaire et définissant un premier plan ($\pi 1$) per-
 pendiculaire audit axe, ladite zone de bord (12)

comprenant une deuxième surface (15) interpo-
 sée entre ladite partie périmétrique (121) et la-
 dite première surface (14),
 - un couvercle plan sensiblement cylindrique
 (20) comprenant une deuxième surface latérale
 (27) et une paroi de recouvrement (26) définis-
 sant un deuxième plan ($\pi 2$) et ayant une surface
 intérieure (21) et une surface opposée (28) sus-
 ceptibles de rester visibles, ledit couvercle (20)
 pouvant être mutuellement couplé de manière
 amovible avec ledit corps principal (11) en cor-
 respondance avec ladite zone de bord (12);
 dans lequel lorsque ledit récipient (10) et ledit
 couvercle (20) sont couplés, ladite paroi de re-
 couvrement (26) et ladite paroi arrière (16) sont
 prédisposés pour se faire face, ladite deuxième
 surface latérale (27) et ladite première surface
 latérale (17) étant prédisposés pour se faire fa-
 ce, ladite première partie périmétrique (121) en-
 trant en contact avec ladite surface intérieure
 (21) de ladite paroi de recouvrement (26);
 dans lequel ladite zone de bord (12) dudit réci-
 pient (10) et ledit couvercle (20) comprennent
 respectivement des premiers et deuxièmes
 moyens de connexion par encliquetage (30, 40)
 qui sont mutuellement amovibles, les premiers
 étant de type mâle, les autres étant de type fe-
 melle, de sorte que ledit récipient (10) et ledit
 couvercle (20) peuvent être mutuellement ac-
 couplables pour définir un ensemble unitaire et
 peuvent être désaccouplables afin de permettre
 l'extraction de l'au moins un aliment; et
 dans lequel ladite au moins une première sur-
 face plane (14) dudit récipient (10) et ledit cou-
 vercle (20) comprennent respectivement des
 premiers et deuxièmes moyens de centrage ré-
 ciproque (13, 23), lesdits premiers moyens de
 centrage comprenant au moins une première
 protubérance (13) qui comprend au moins une
 première partie de butée (1323), lesdits deuxi-
 èmes moyens de centrage (23) comprenant au
 moins une deuxième partie de contre-action
 (2313) susceptible d'interagir avec ladite au
 moins une première partie de butée (1323) lors
 du couplage mutuel dudit récipient (10) et dudit
 couvercle (20) de sorte que lesdits premier et
 deuxième plans ($\pi 1$, $\pi 2$) sont sensiblement pa-
 rallèles;
 dans lequel ladite au moins une deuxième sur-
 face (15) comprend au moins une deuxième pro-
 tubérance (31) définissant lesdits moyens de
 connexion mâle (30), lesdites première et
 deuxième protubérances (13, 31) étant mutuel-
 lement espacées;
 dans lequel ladite au moins une première sur-
 face plane (14) comprend une deuxième partie
 périmétrique (141), cette dernière et ladite au
 moins une première protubérance (13) étant

mutuellement espacées d'une distance prédéterminée (**d**) pour empêcher un découplage accidentel dudit récipient (**10**) et dudit couvercle (**20**) lorsqu'ils sont mutuellement couplés;

caractérisé en ce que ladite première surface plane (**14**) est perpendiculaire à la deuxième surface (**15**) et s'étend en saillie à partir de ladite zone de bord (**12**) de ladite première surface latérale (**17**) pour définir ledit premier plan ($\pi 1$), ladite au moins une première protubérance (**13**) s'étendant à partir de ladite au moins une première surface plane (**14**).

2. Ensemble selon la revendication 1, dans lequel ladite surface intérieure (**21**) de ladite paroi de recouvrement (**26**) comprend lesdits moyens de connexion femelle (**40**), ceux-ci comprenant un évidement (**41**) mutuellement en contre-forme par rapport à ladite au moins une deuxième protubérance (**31**) pour permettre leur couplage amovible hermétique.
3. Ensemble selon l'une quelconque des revendications précédentes, dans lequel lesdits deuxième moyens de centrage (**23**) comprennent au moins une surface d'attaque (**24**) pour favoriser la connexion entre lesdits premiers et deuxième moyens de connexion (**30**, **40**) lors du couplage mutuel dudit récipient (**10**) et dudit couvercle (**20**) de sorte que lesdits premier et deuxième plans ($\pi 1$, $\pi 2$) soient sensiblement parallèles.
4. Ensemble selon les revendications 2 ou 3, dans lequel ladite surface d'attaque (**24**) et ledit au moins un évidement (**41**) sont mutuellement adjacents.
5. Ensemble selon l'une quelconque des revendications précédentes, dans lequel ledit couvercle (**20**) comprend une partie d'étanchéité (**22**) au moins partiellement amovible de manière à garantir le non-découplage desdits récipient (**10**) et couvercle (**20**) et afin de permettre l'extraction dudit au moins un aliment, une fois retiré.
6. Ensemble selon l'une quelconque des revendications précédentes, dans lequel ledit corps principal (**11**), ladite première surface plane (**14**), lesdits premiers moyens de connexion (**30**) et lesdits premiers moyens de centrage (**13**) sont constitués d'un matériau à usage alimentaire, celui-ci étant de préférence co-moulé.

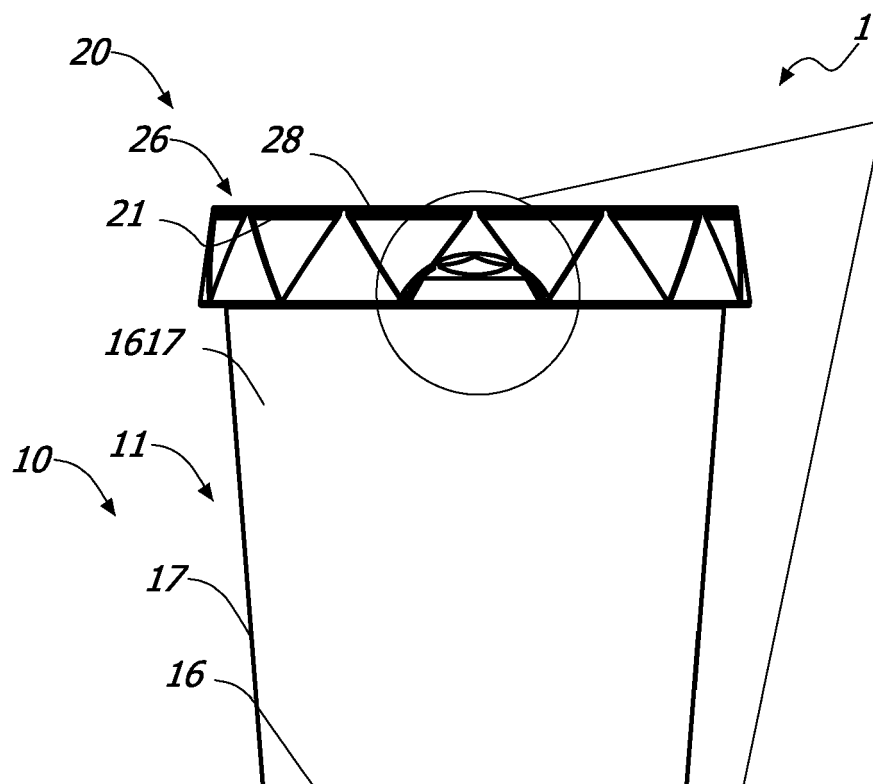


FIG. 1A

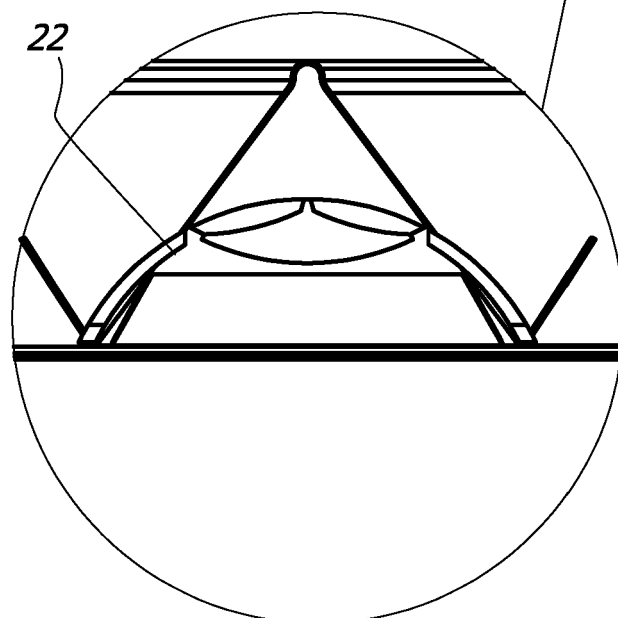


FIG. 1B

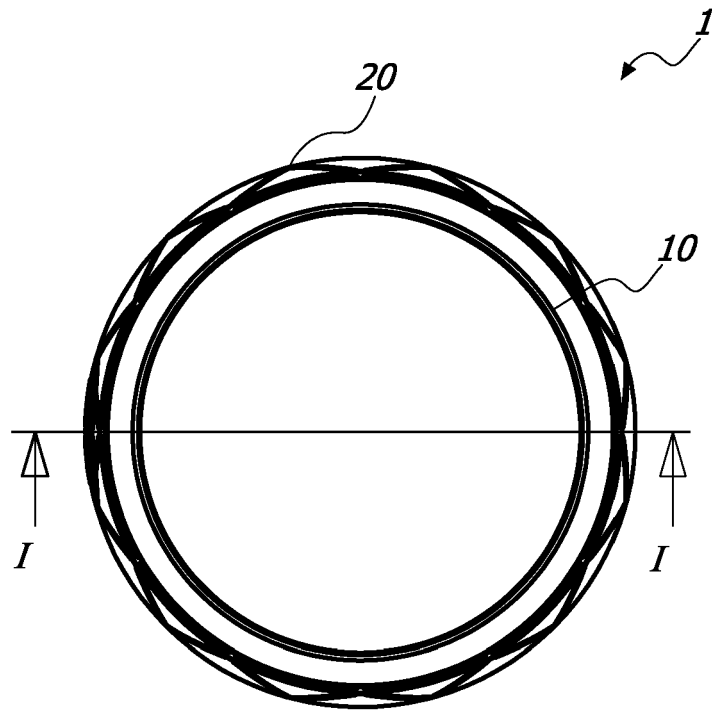


FIG. 2A

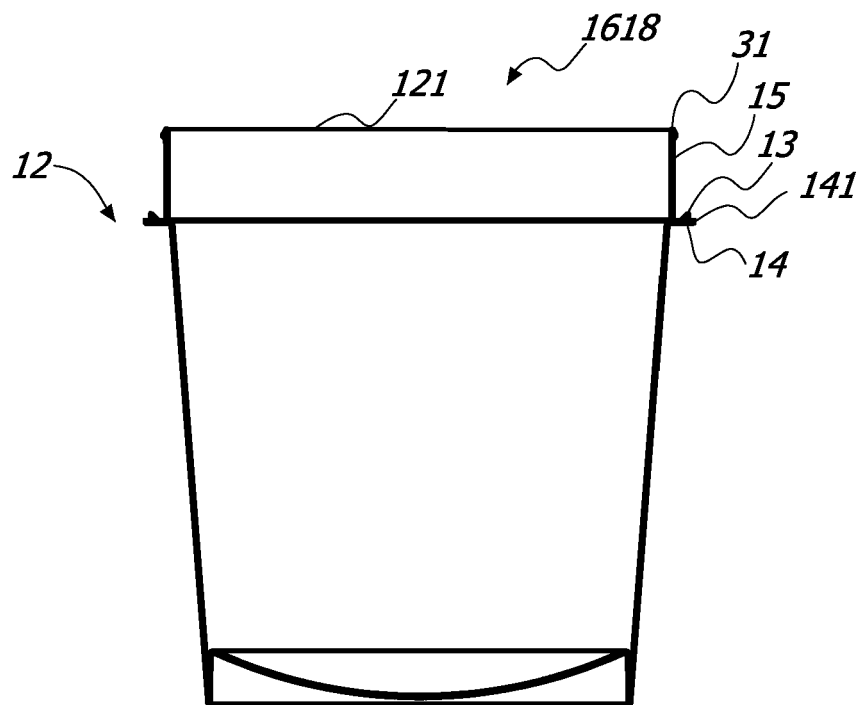
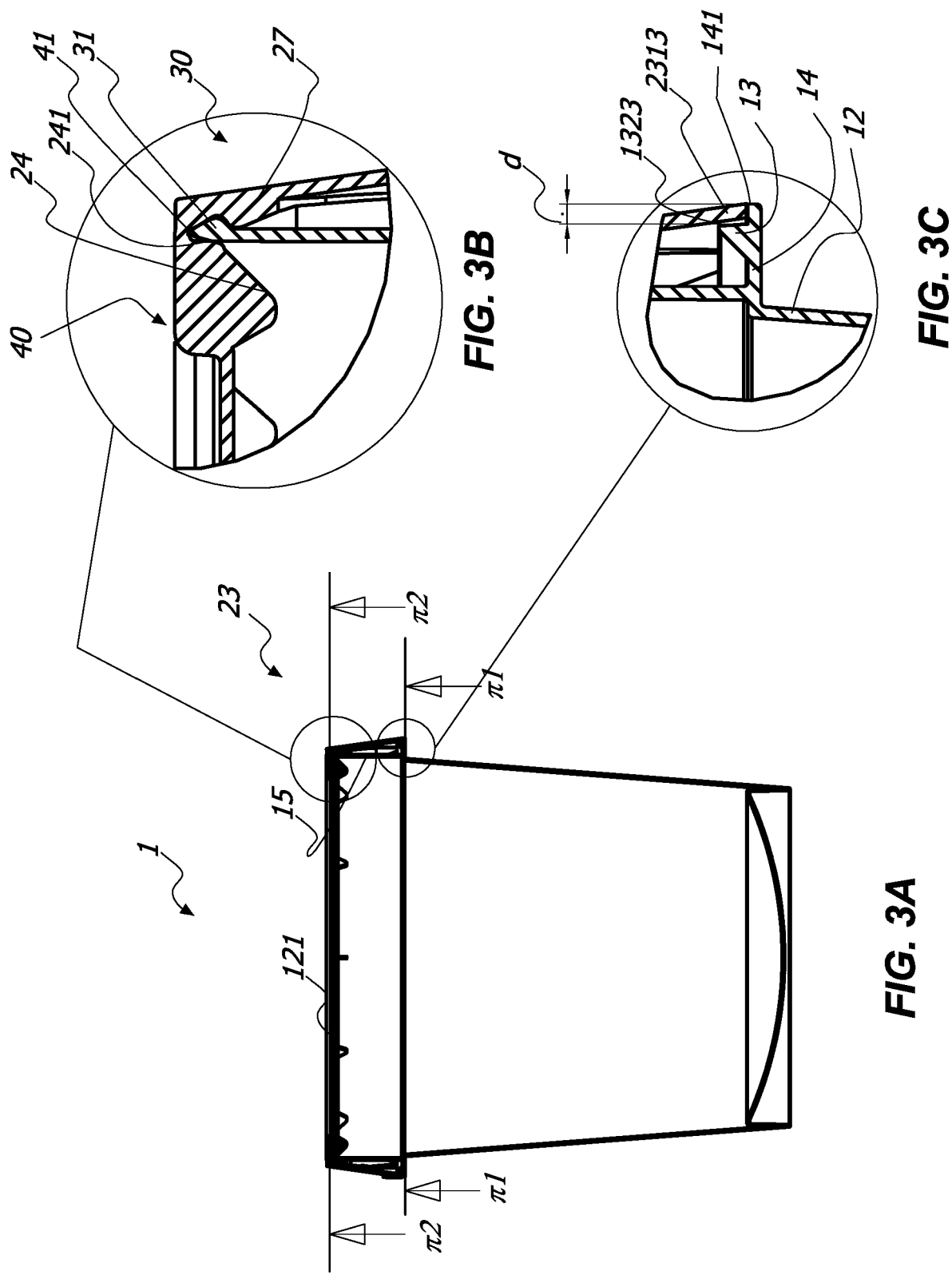


FIG. 2B



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Patent documents cited in the description

- DE 19535943 A [0012]