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(54) **INSULATED FOOD AND BEVERAGE CONTAINER**

(71) Applicant: **Vinglacé, LLC**, Houston, TX (US)

(72) Inventor: **Colton Bryan Haas**, Houston, TX (US)

(73) Assignee: **Vinglacé, LLC**, Houston, TX (US)

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(63) Continuation-in-part of application No. 16/863,379, filed on Apr. 30, 2020, which is a continuation-in-part of application No. 16/100,153, filed on Aug. 9, 2018.

(60) Provisional application No. 62/653,185, filed on Apr. 5, 2018.

Publication Classification

(51) **Int. Cl.**

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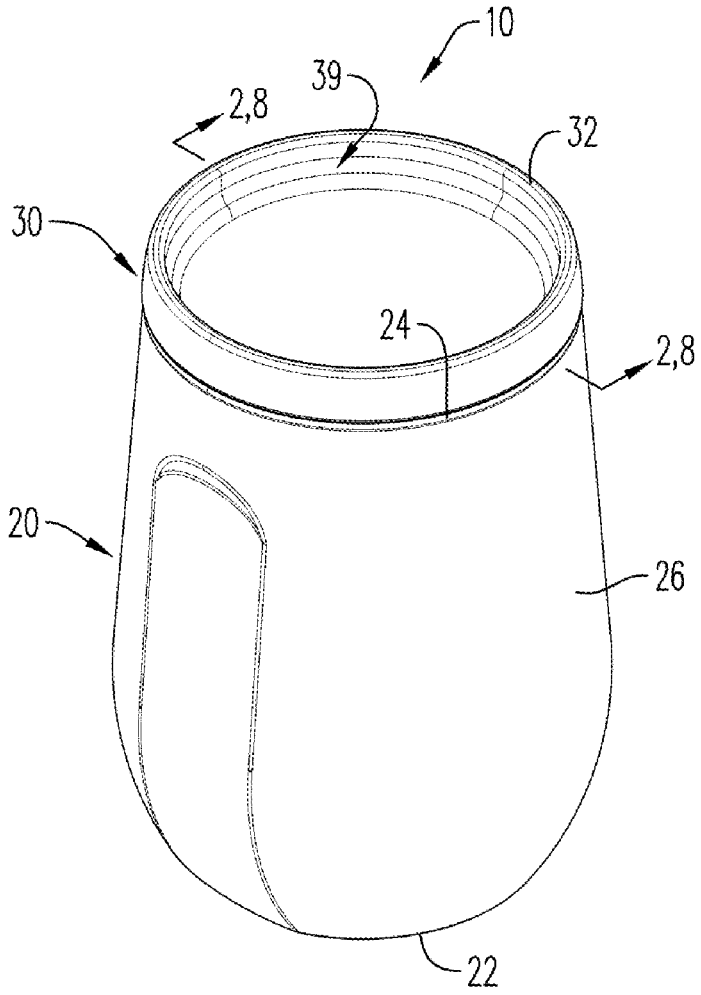
B65D 41/04	(2006.01)
A47G 19/22	(2006.01)

(52) **U.S. Cl.**

CPC ***B65D 81/3869*** (2013.01); ***B65D 47/286*** (2013.01); ***A47G 19/2205*** (2013.01); ***B65D 41/04*** (2013.01); ***A47G 19/2288*** (2013.01); ***B65D 53/02*** (2013.01)

(57) **ABSTRACT**

An insulated container includes a double-walled structure having a closed end, an open end, and a side wall extending from the closed end to the open end. The side wall and the closed end of the insulated container together form a hollow interior. A glass structure may be arranged within the hollow interior. The glass structure includes a body having an open upper end and a closed base end. According to an aspect, the insulated container includes a cover having a sipping portion. According to an aspect, the glass structure includes a sipping portion protruding from the double-walled structure, and a collar is positioned over the sipping portion of the glass structure.



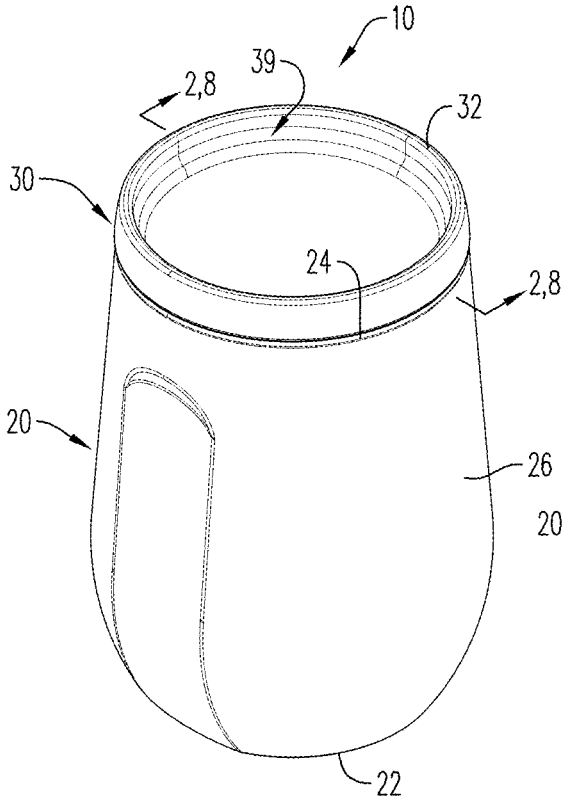


FIG. 1A

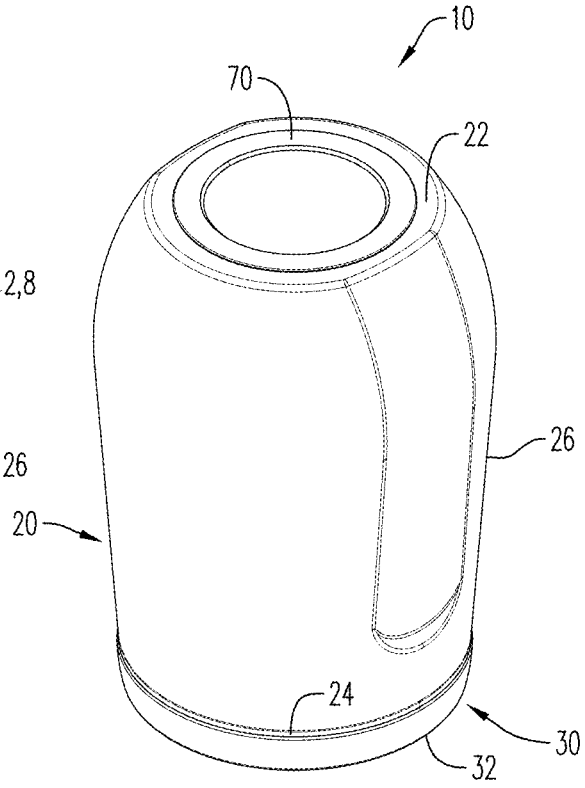


FIG. 1B

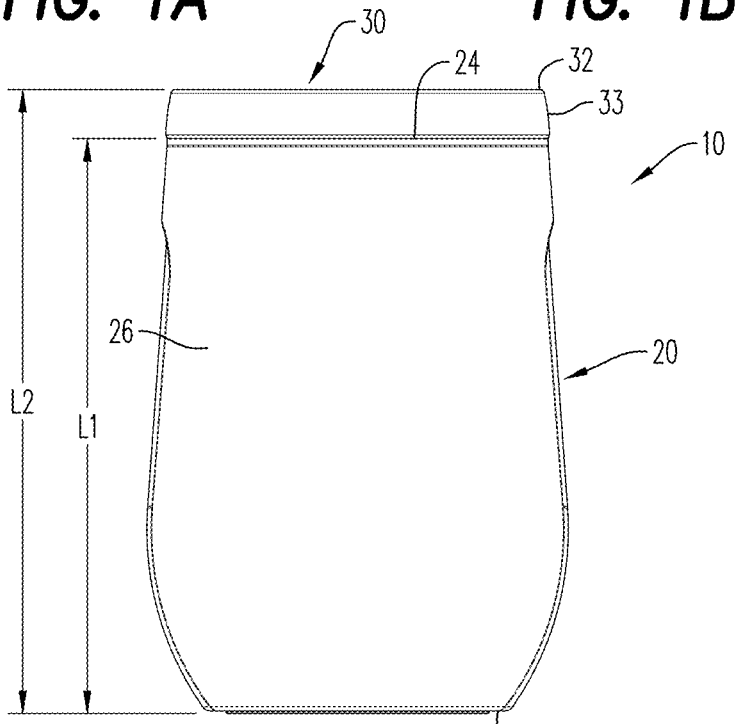


FIG. 1C

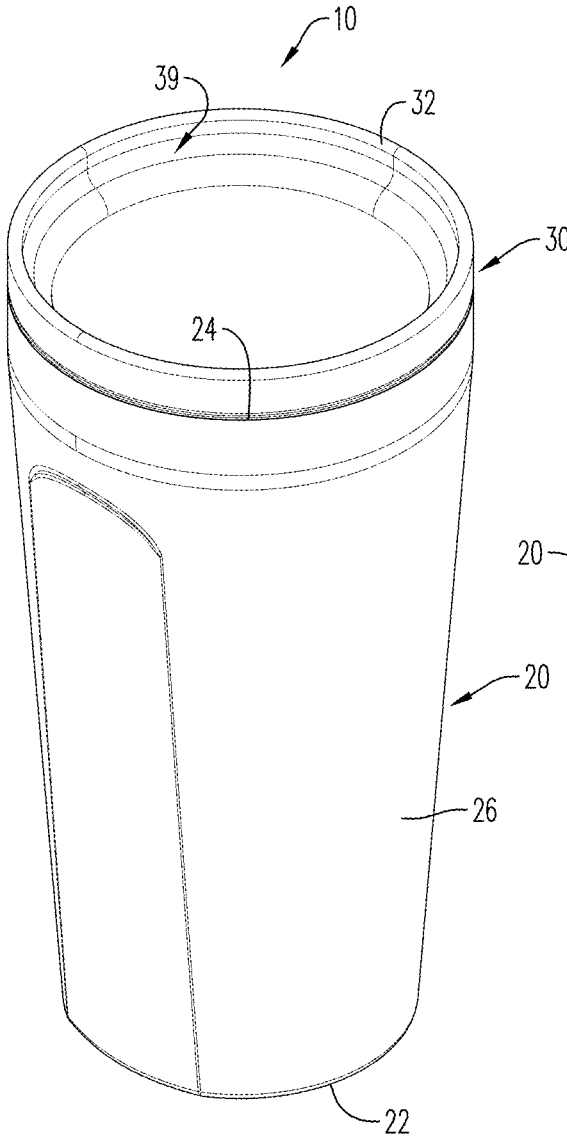


FIG. 1D

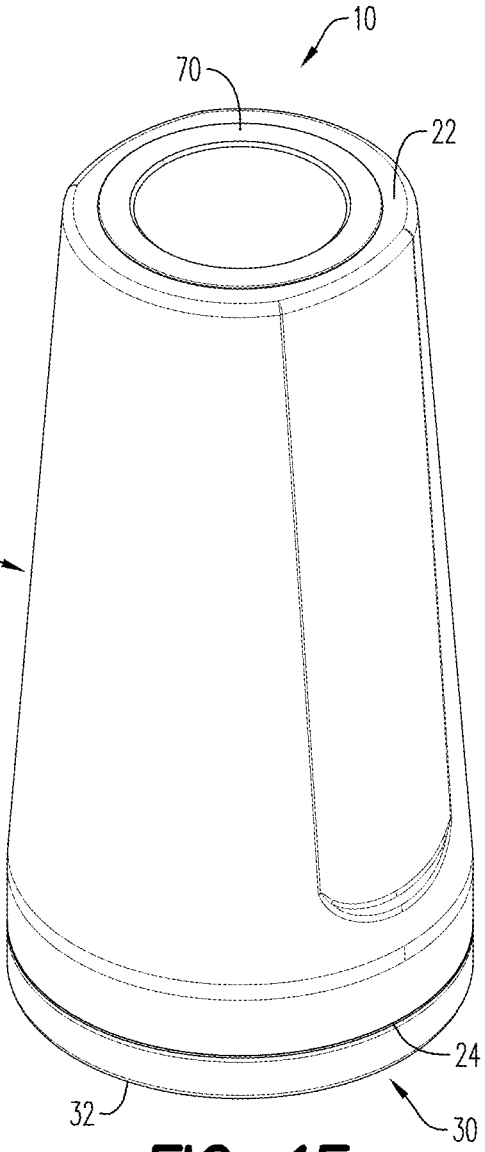


FIG. 1E

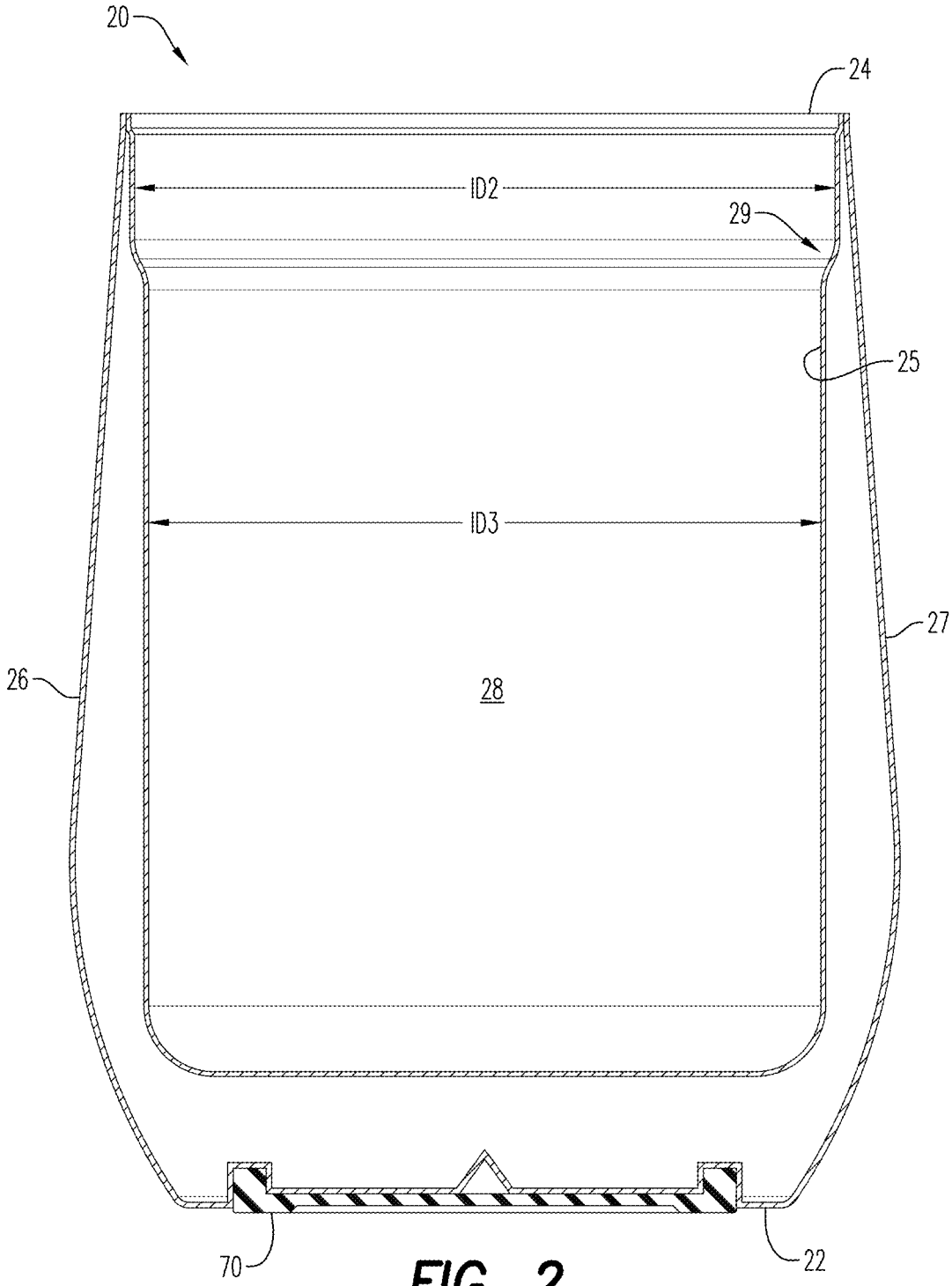
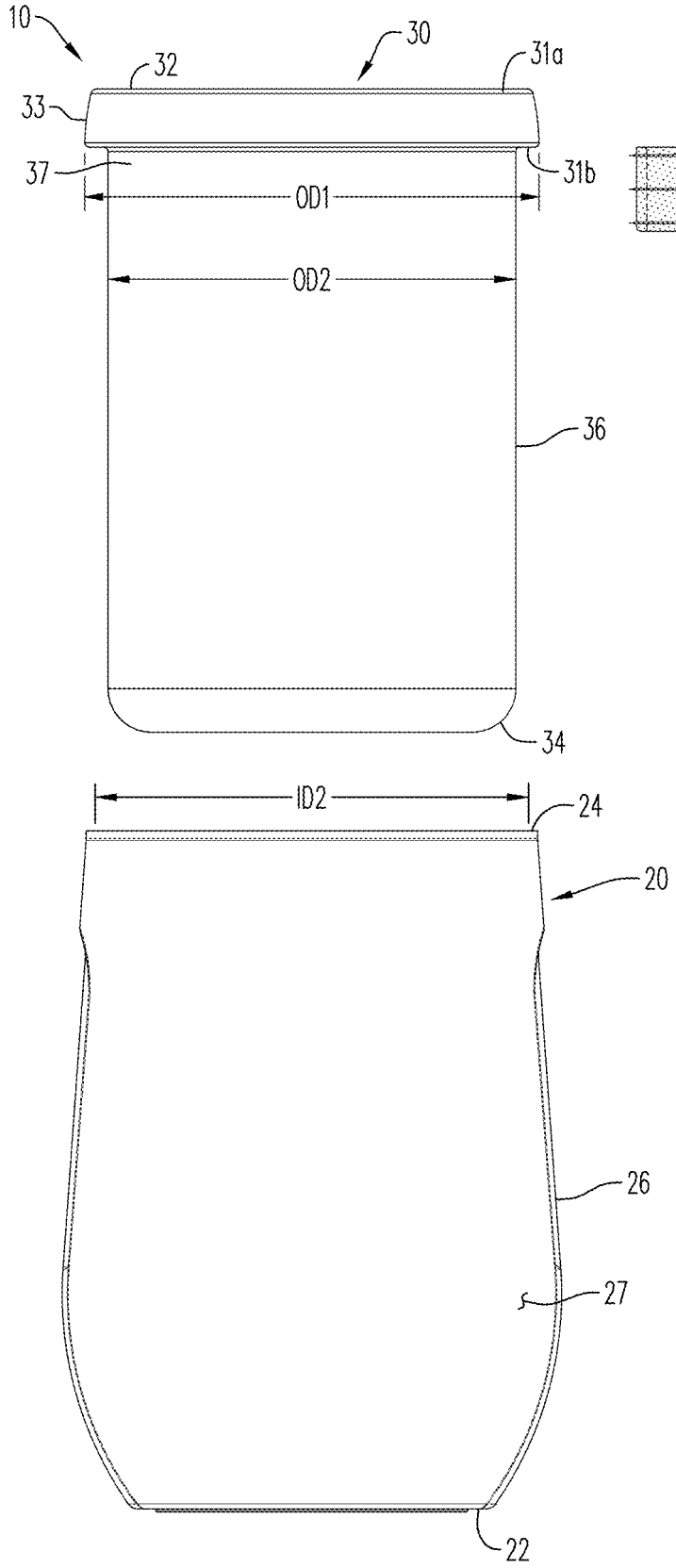


FIG. 2



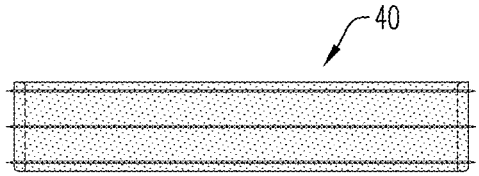


FIG. 3A

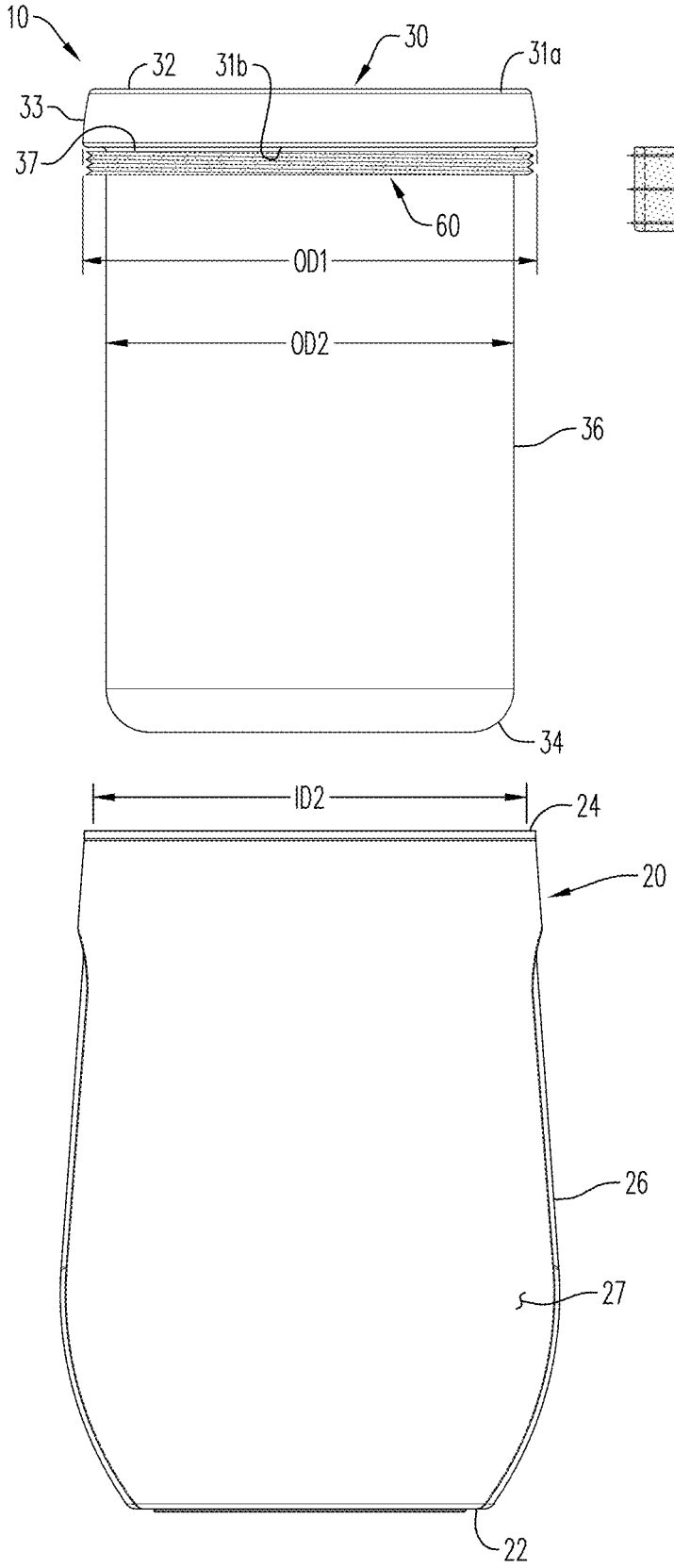


FIG. 3B

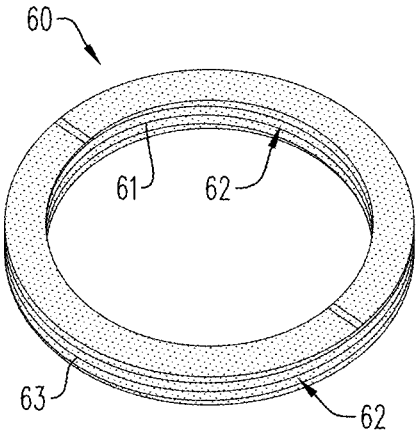


FIG. 3C

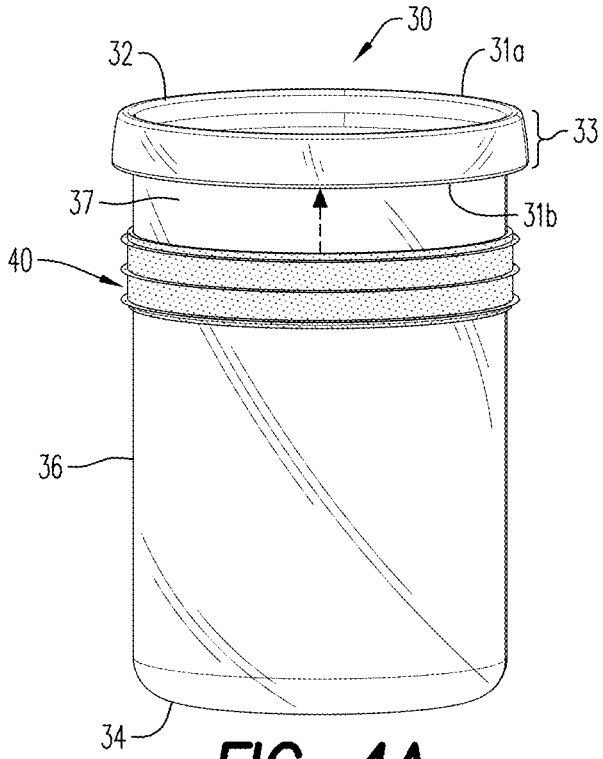


FIG. 4A

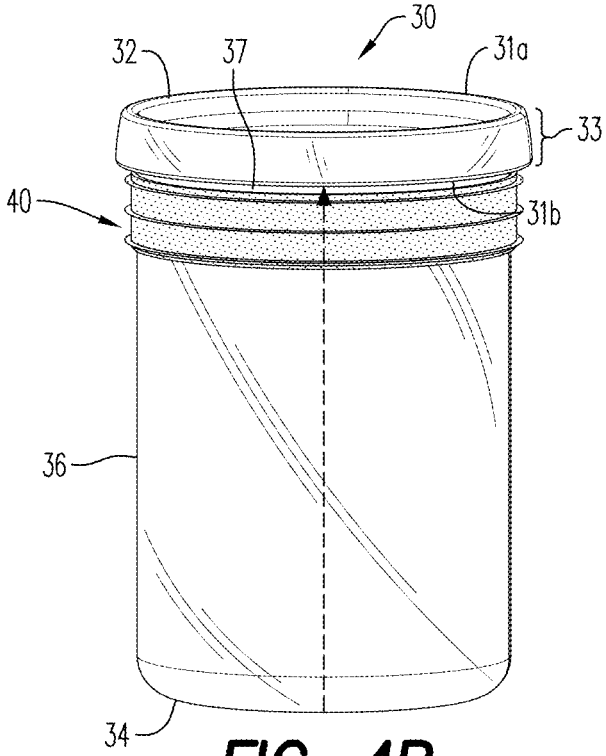


FIG. 4B

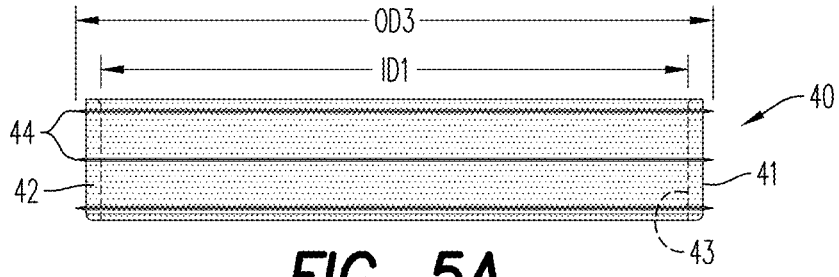


FIG. 5A

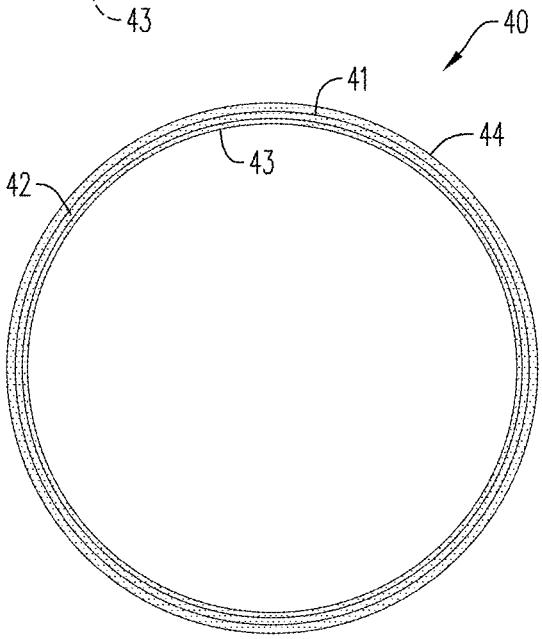


FIG. 5B

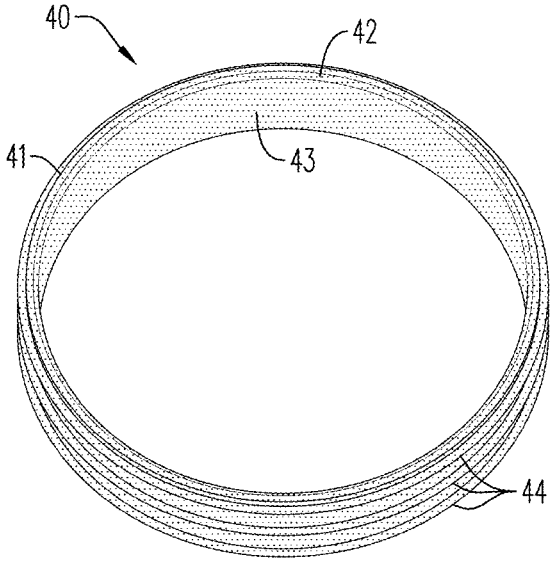


FIG. 5C

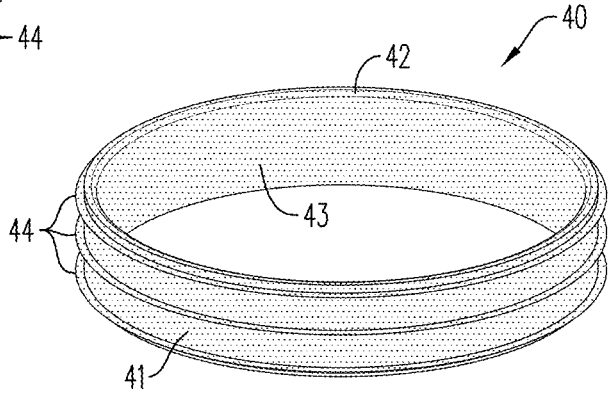


FIG. 5D

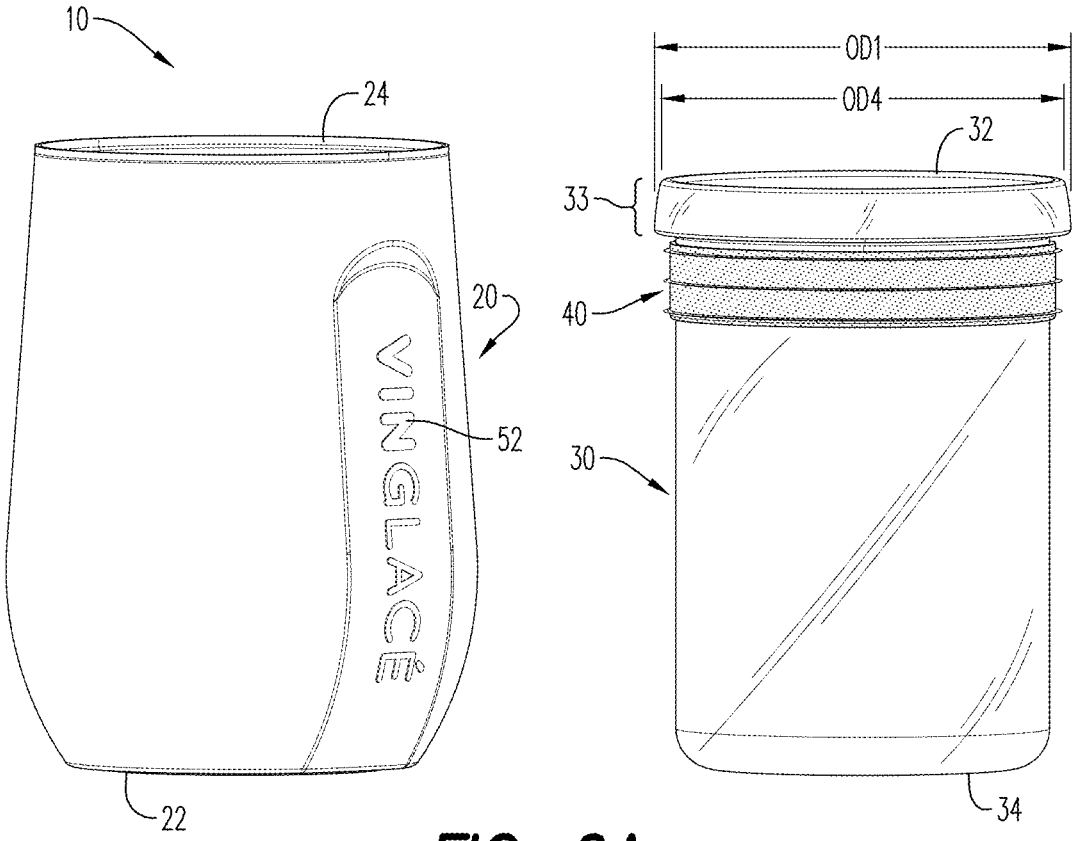


FIG. 6A

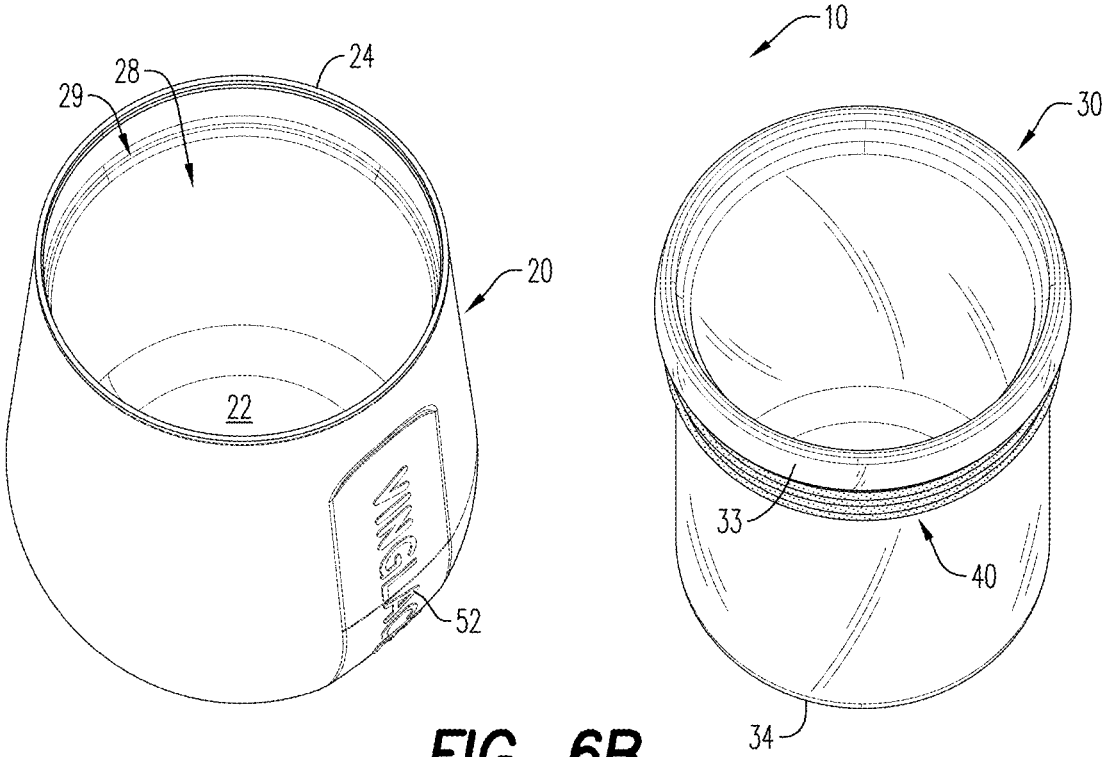


FIG. 6B

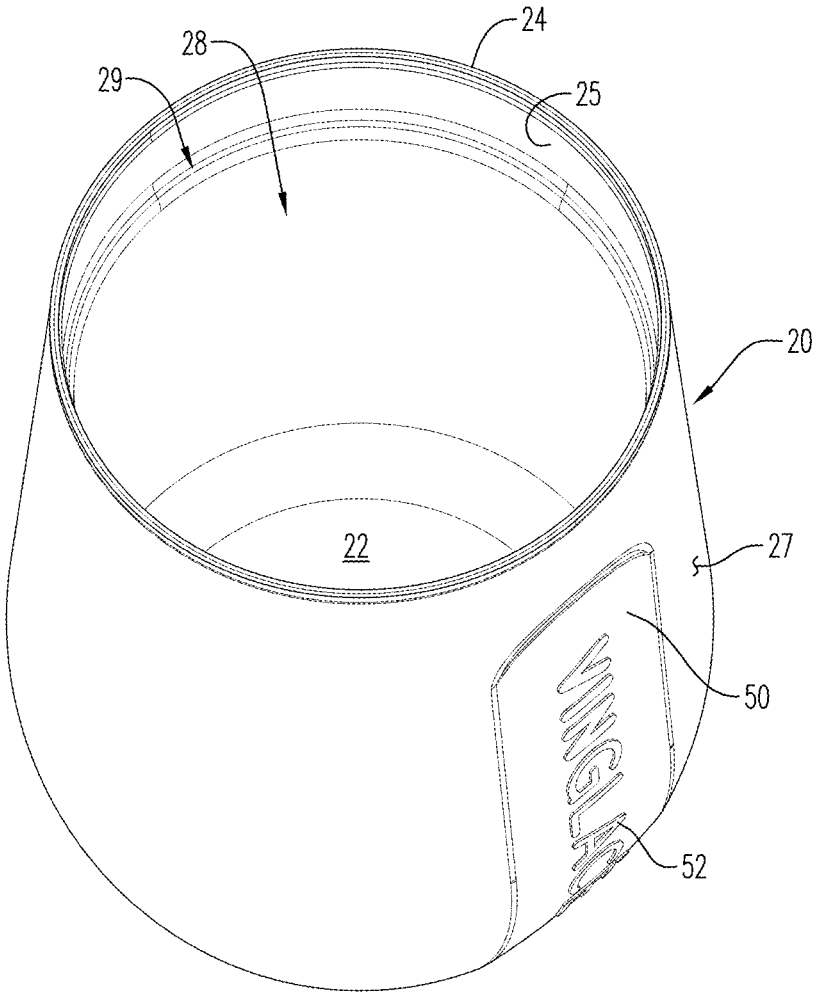
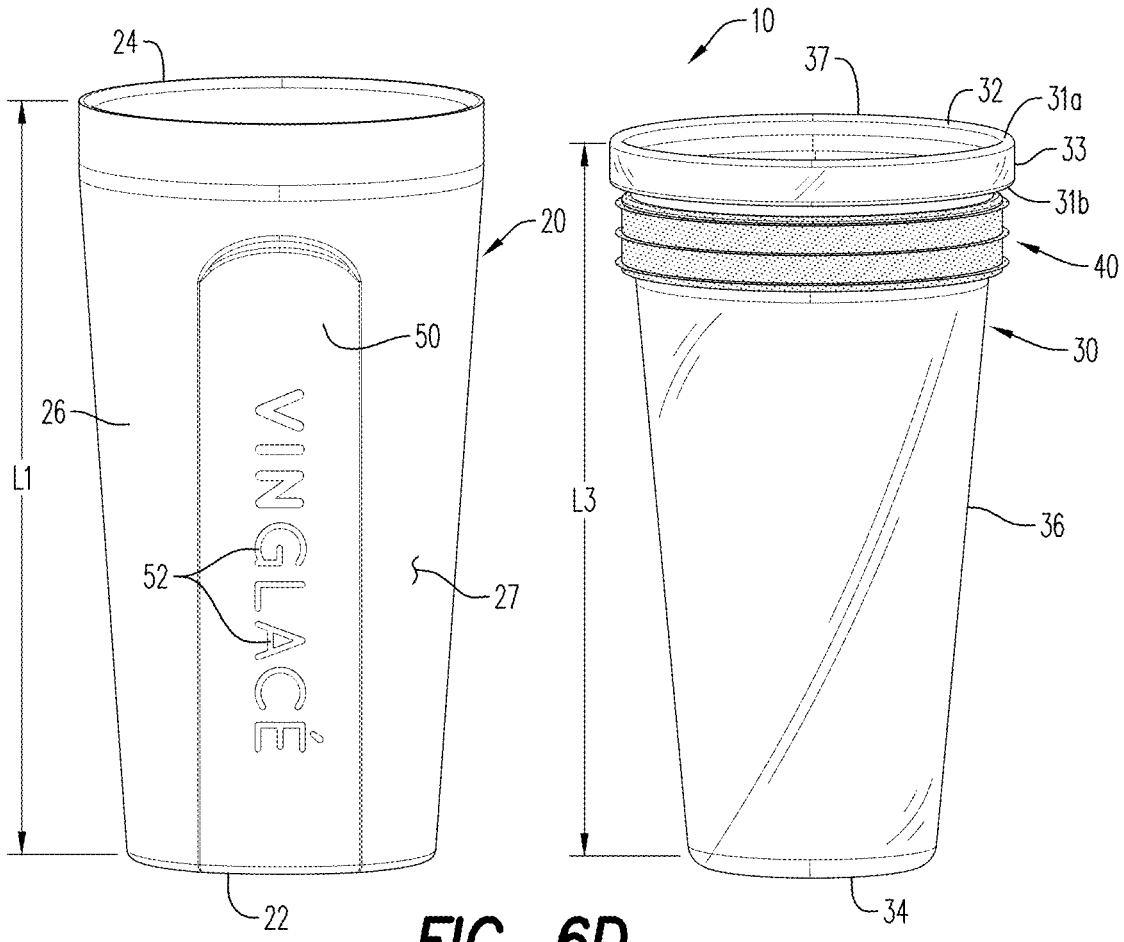


FIG. 6C


24
20
50
26
L1
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27
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31a
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31b
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L3
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34

FIG. 6D

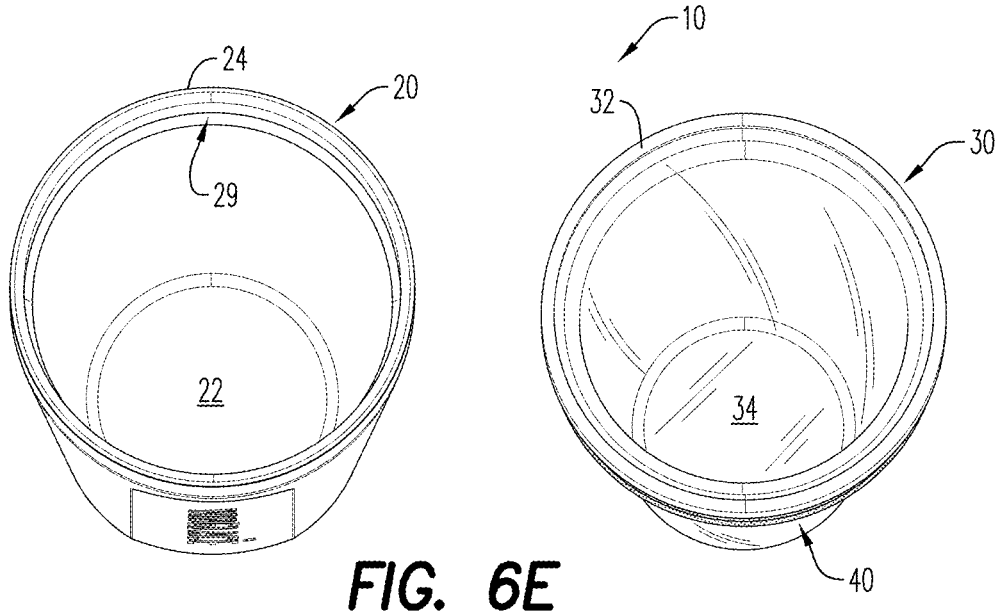
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FIG. 6E

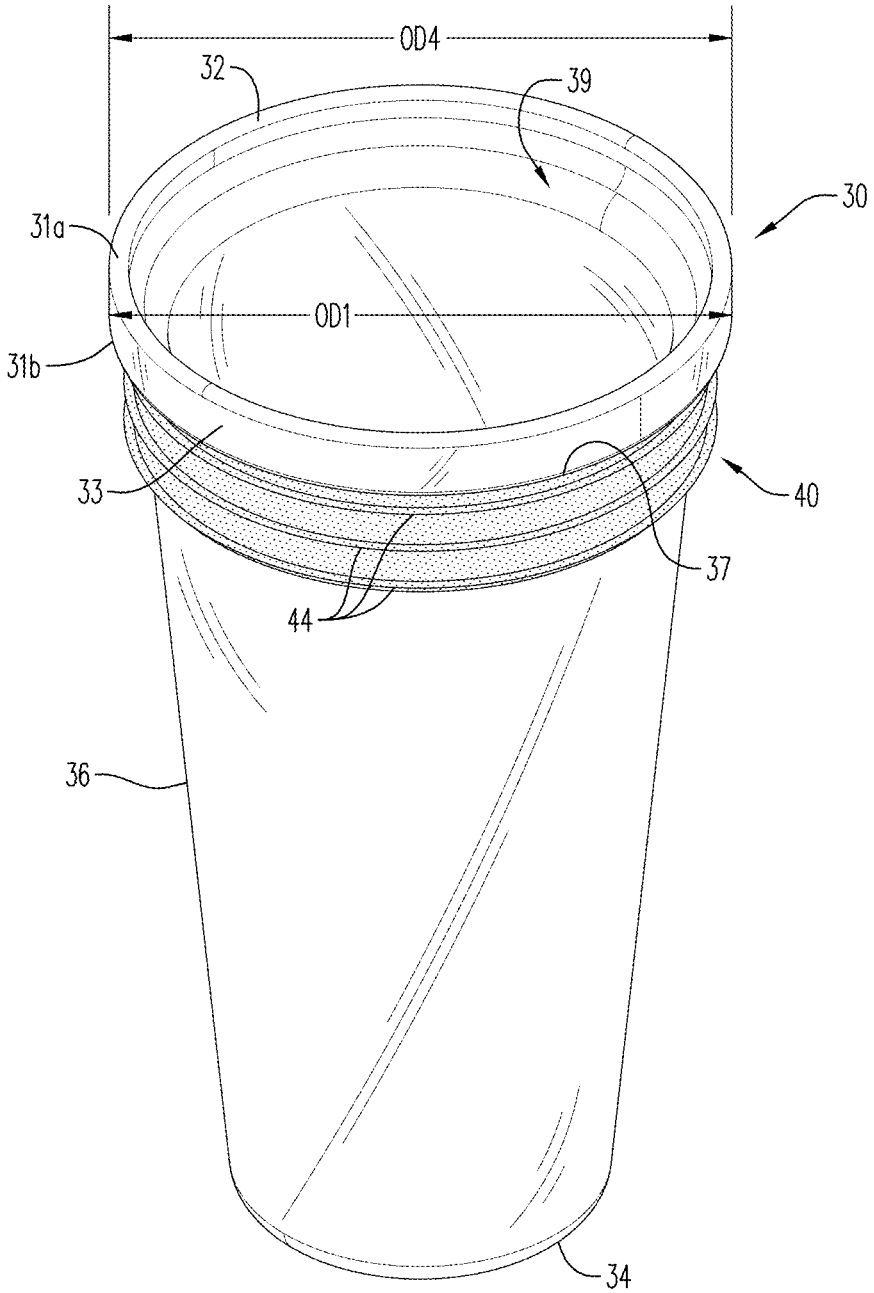


FIG. 6F

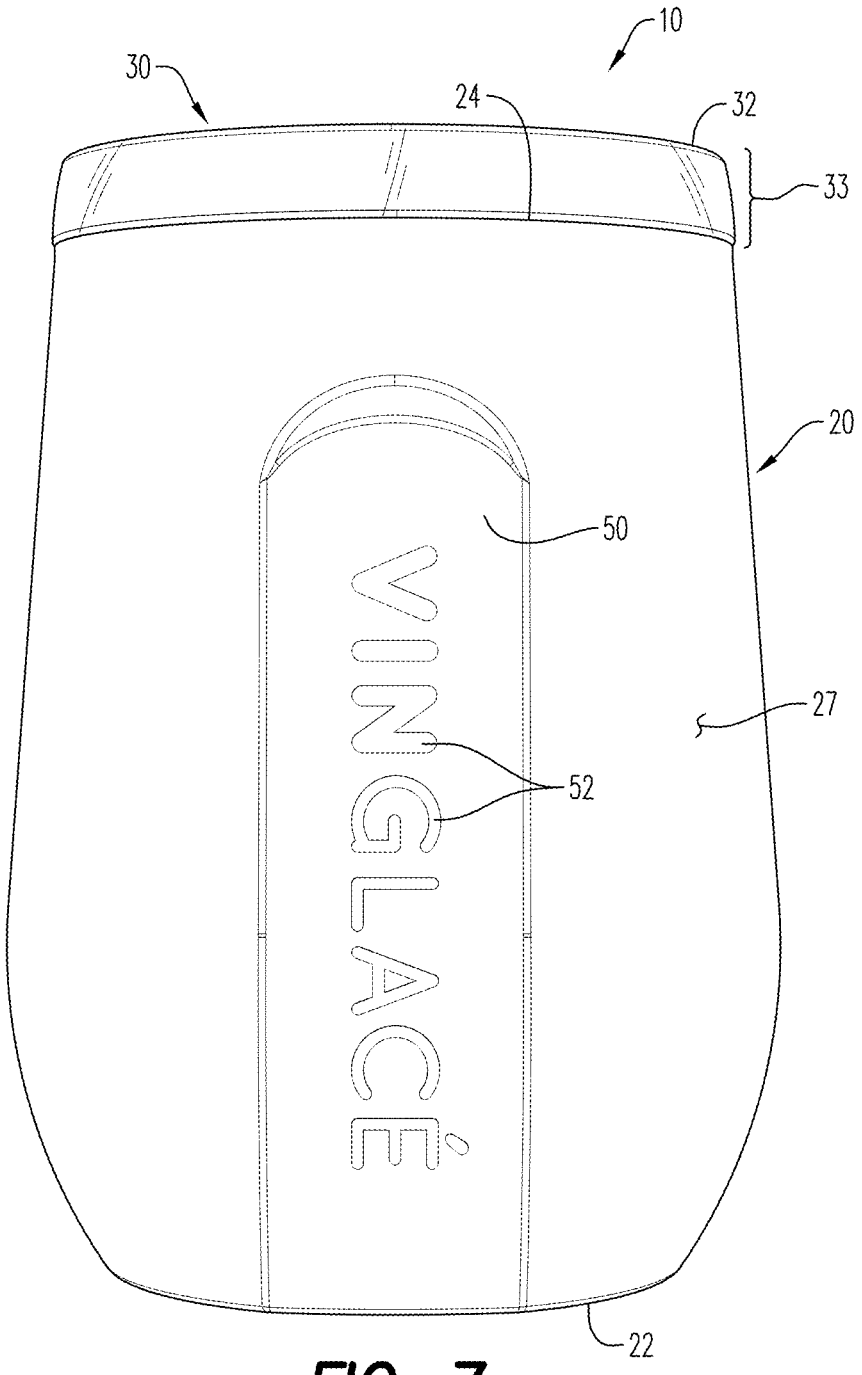


FIG. 7

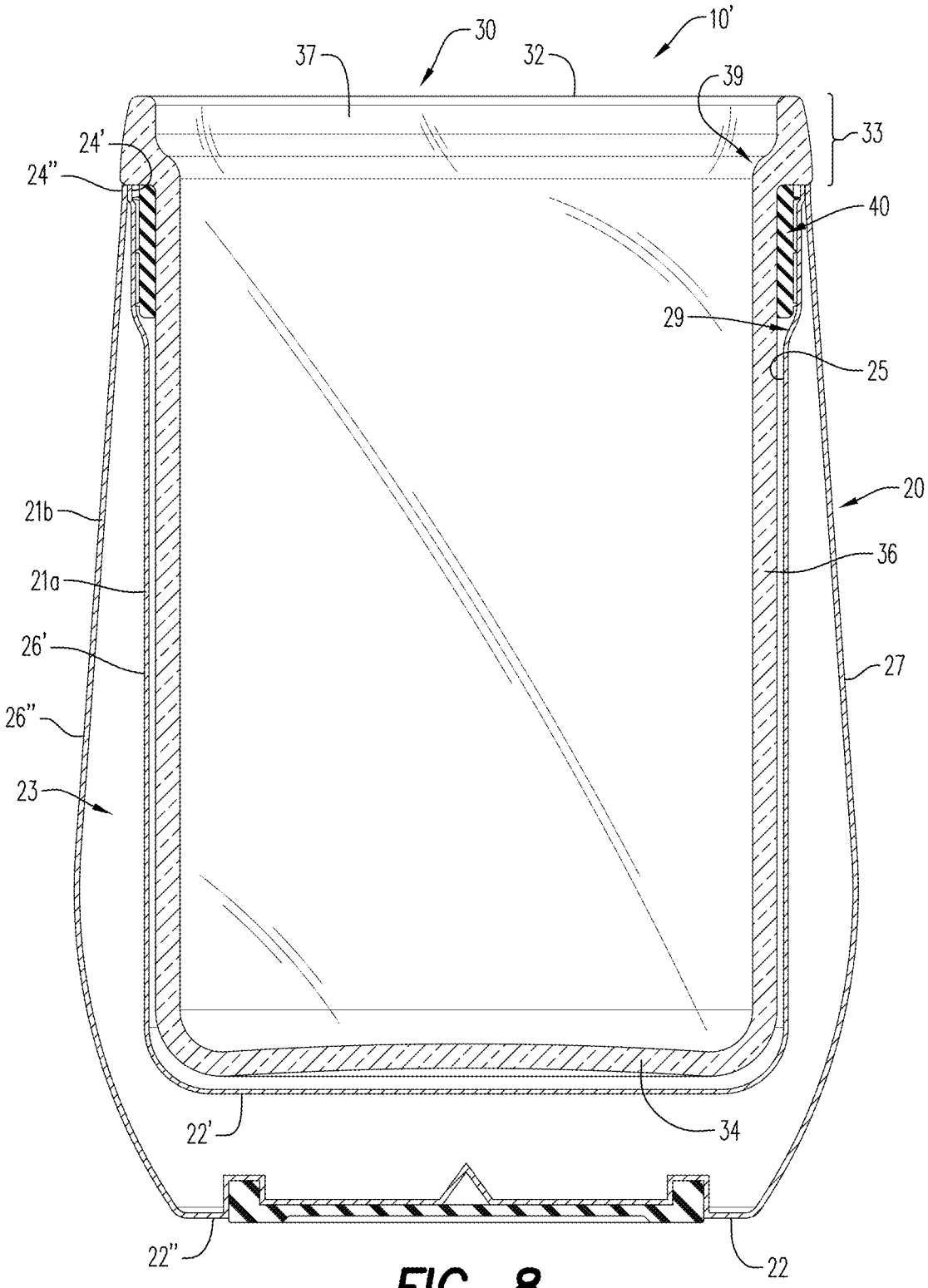


FIG. 8

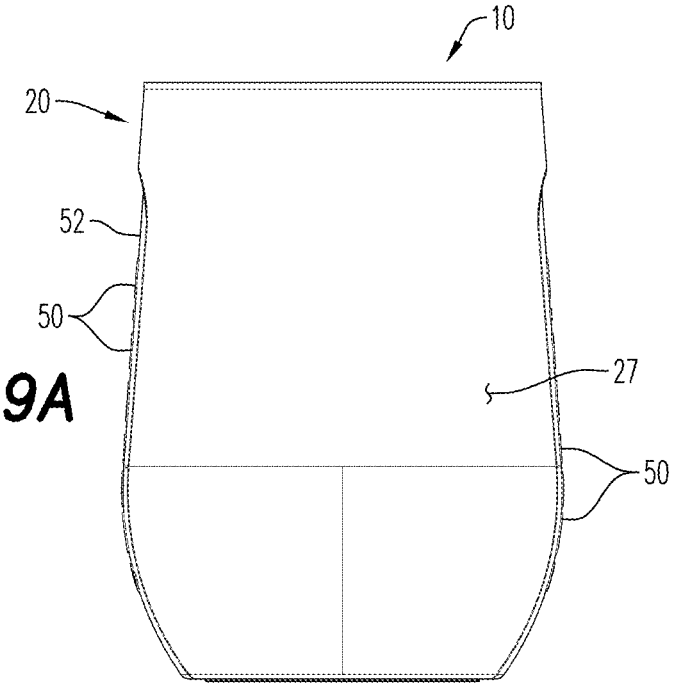


FIG. 9A

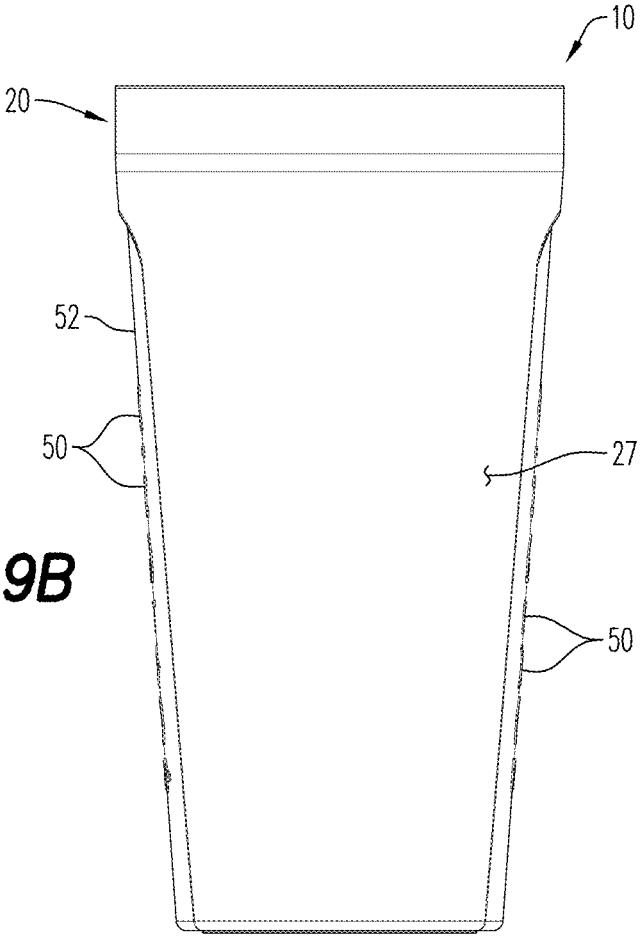


FIG. 9B

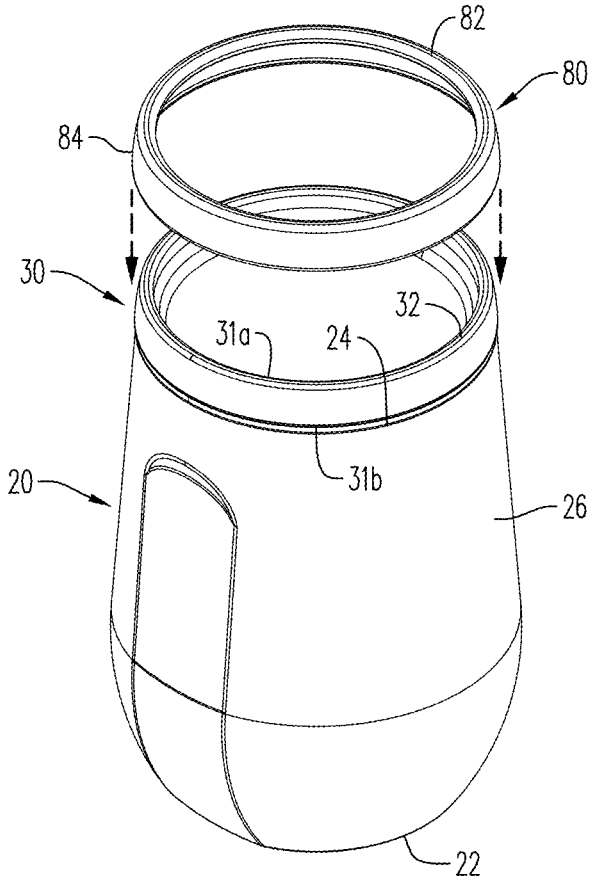


FIG. 10A

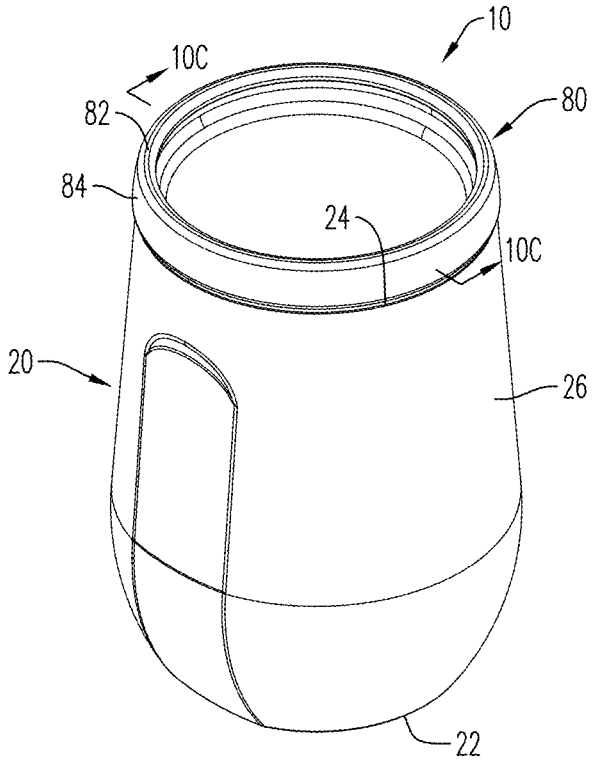


FIG. 10B

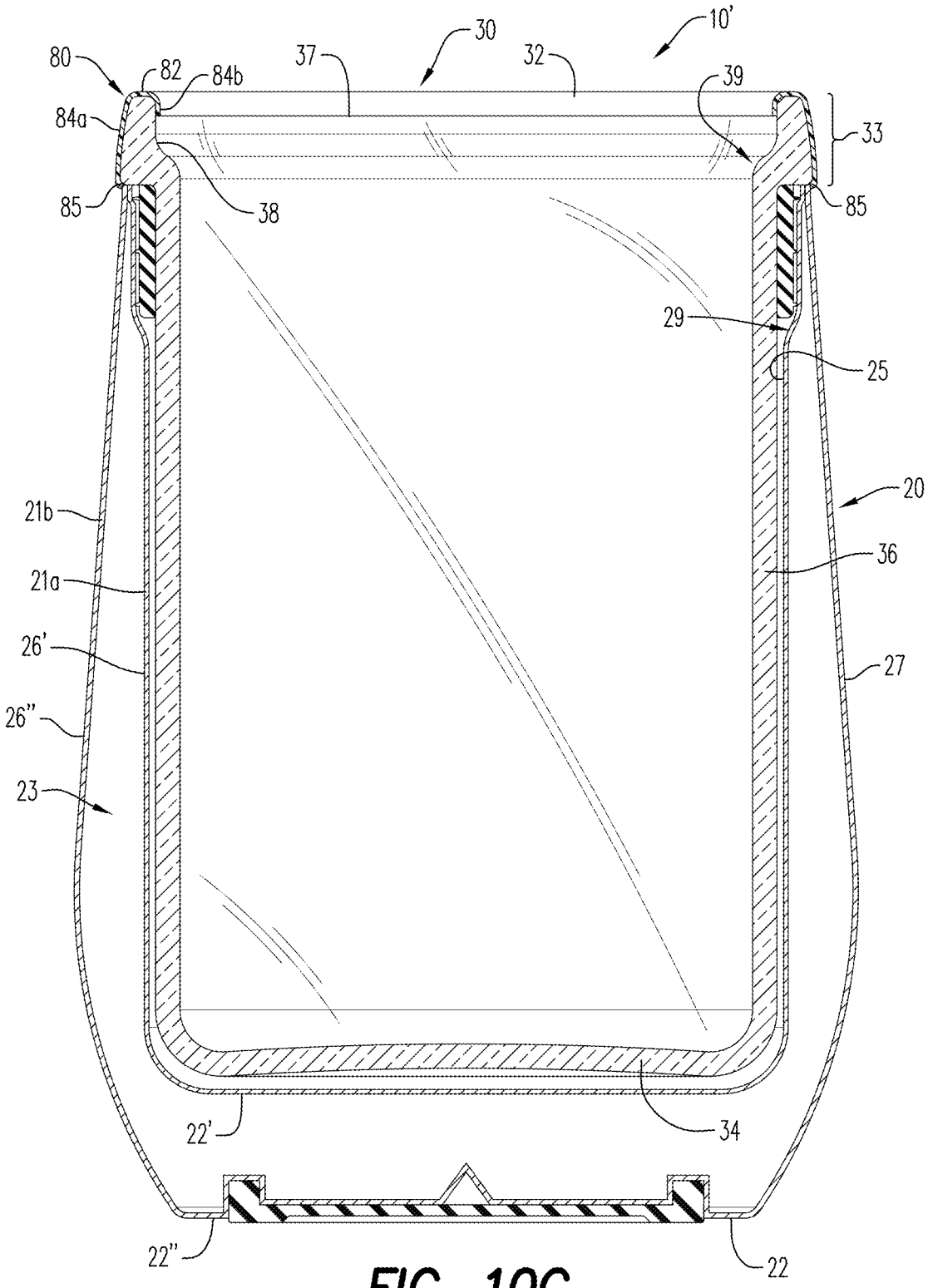

10'
30
80
82
84b
37
32
39
84a
33
85
38
85
29
25
20
21b
36
21a
26'
27
26"
23
22'
34
22"
22

FIG. 10C

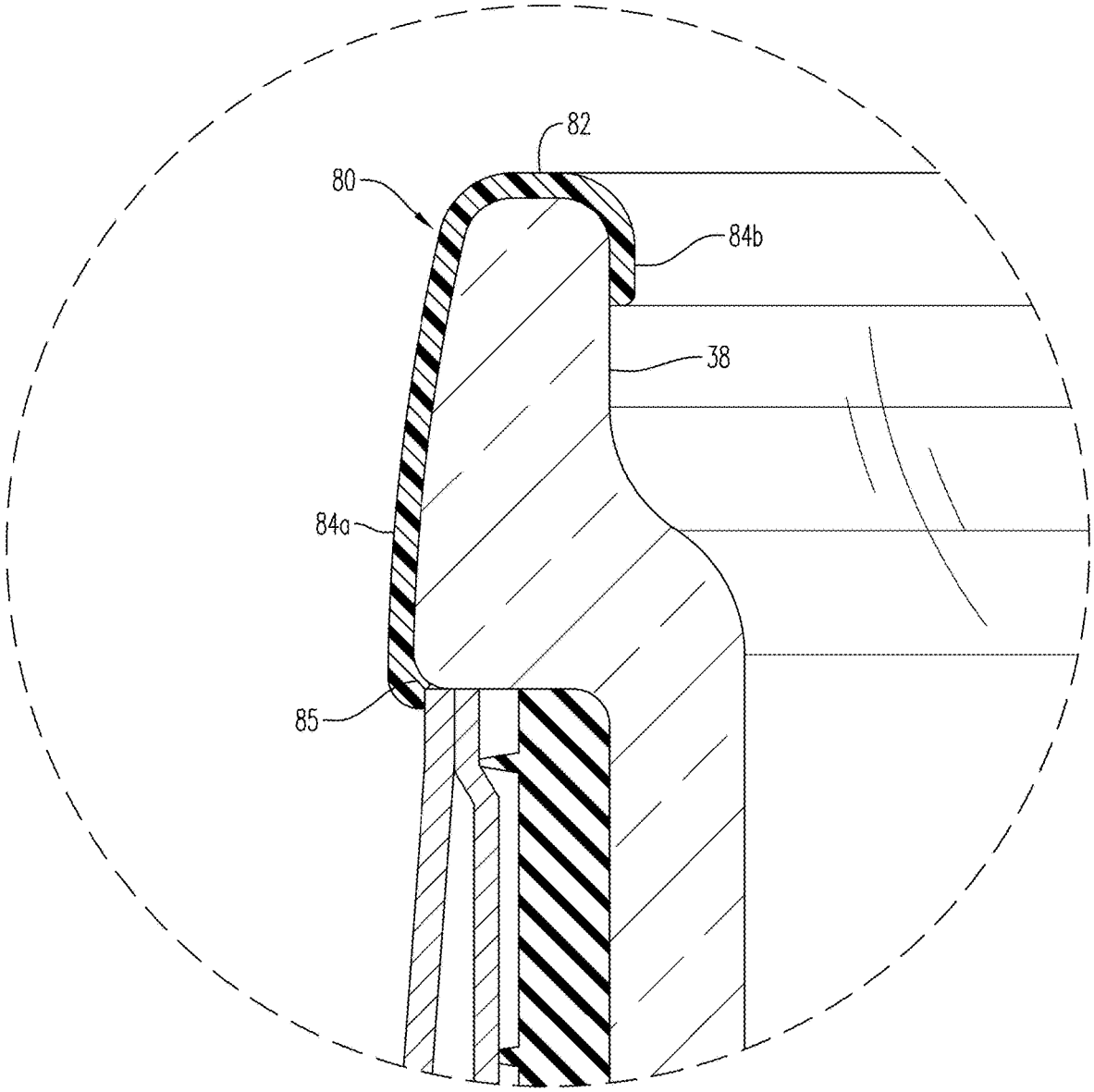


FIG. 10D

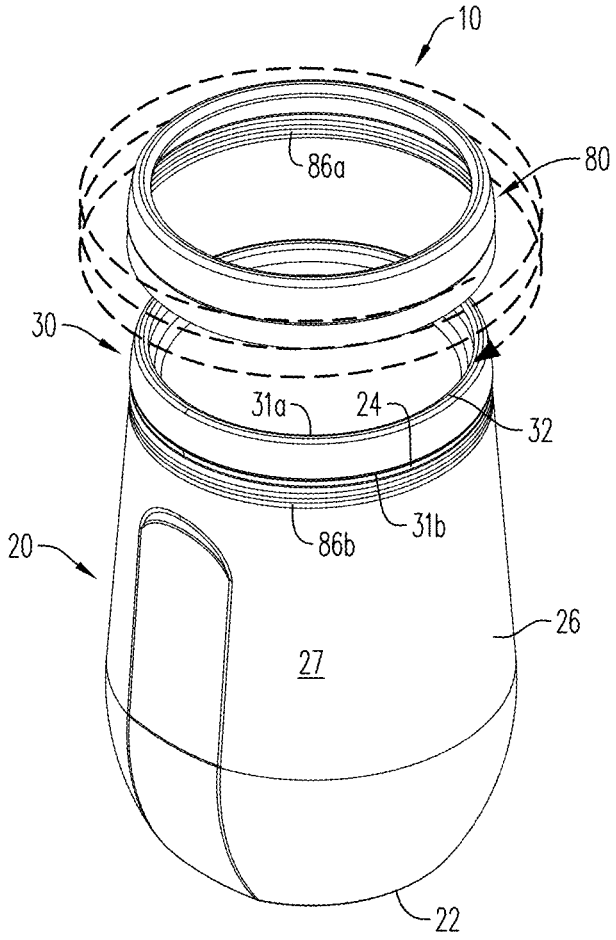


FIG. 11A

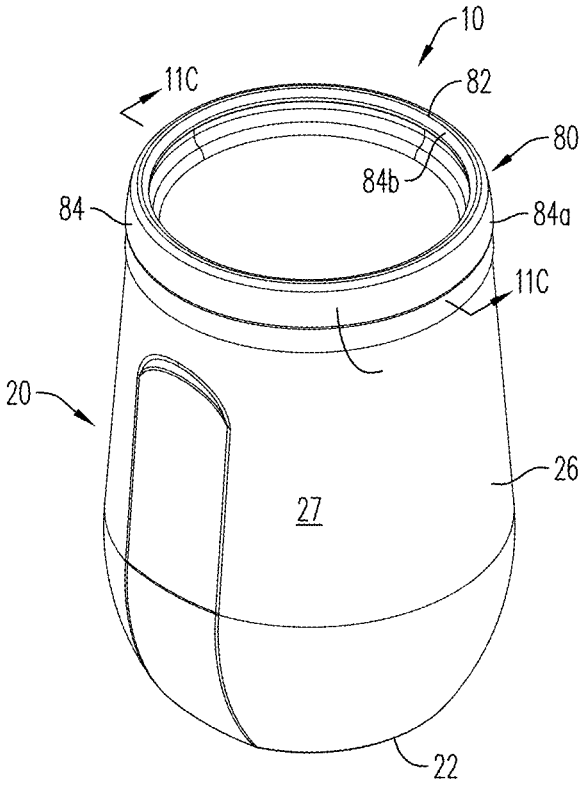
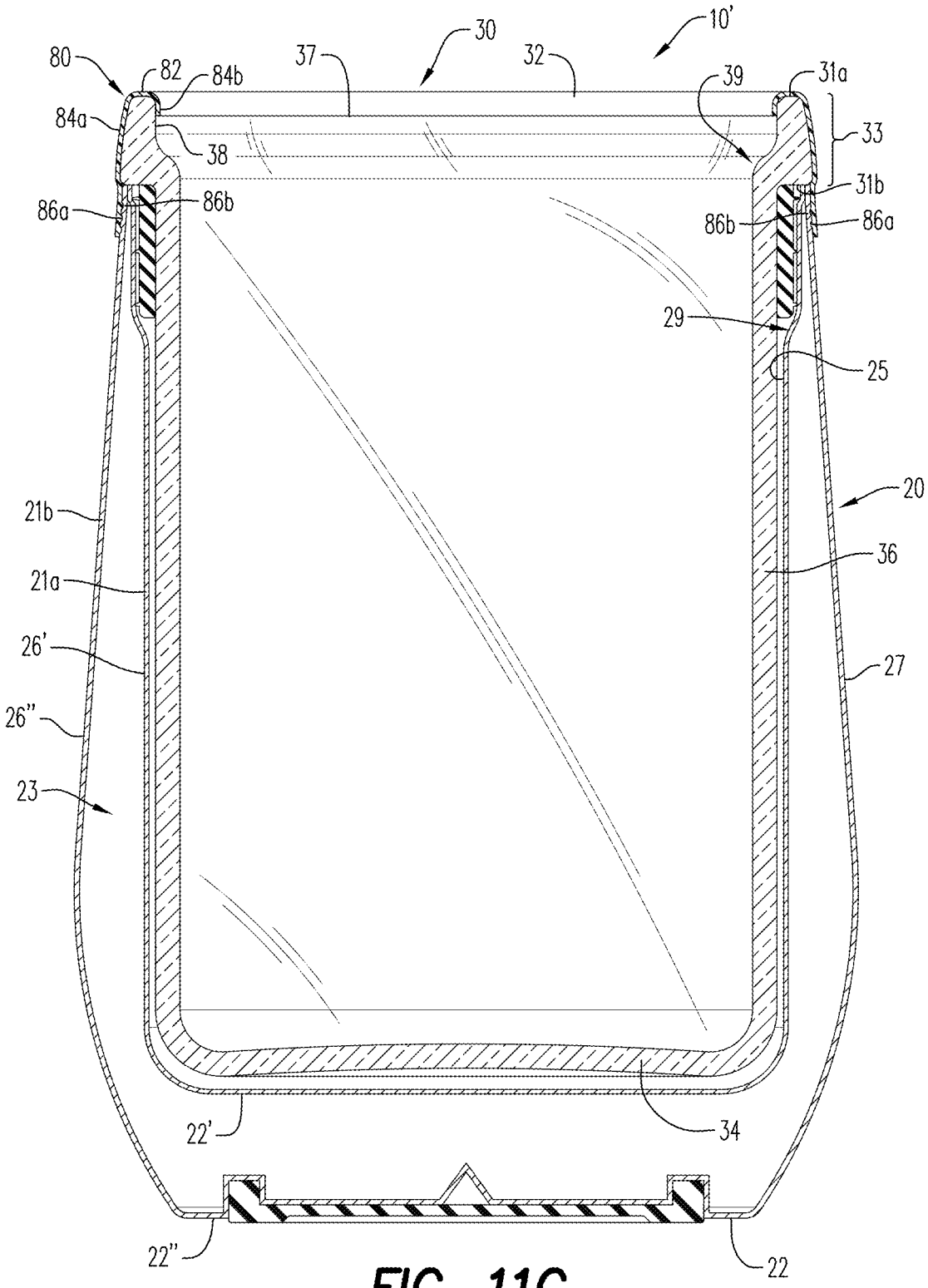


FIG. 11B


10'
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84b
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32
39
31a
84a
38
33
31b
86a
86b
86b
86a
29
25
20
21b
36
21a
26'
27
26"
23
22'
34
22"
22

FIG. 11C

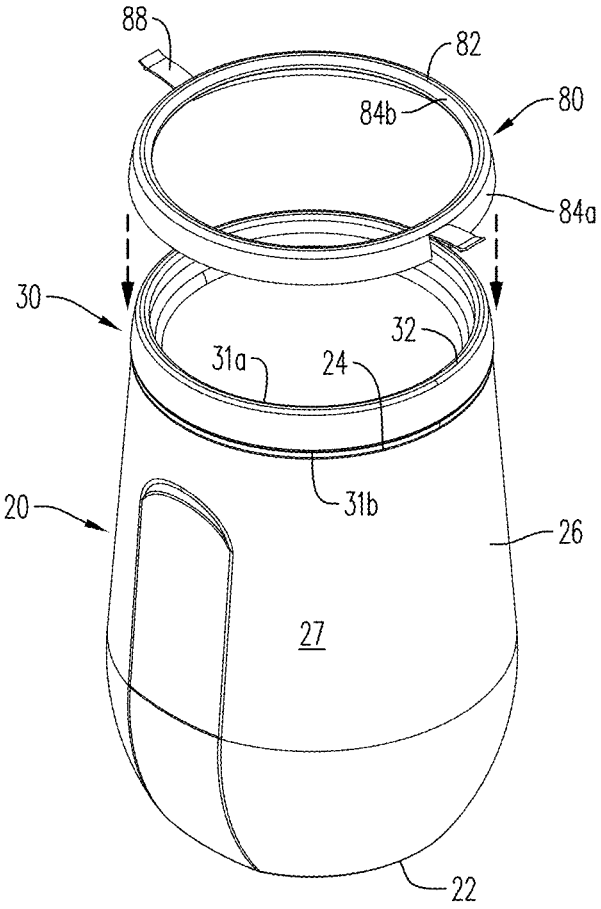


FIG. 12A

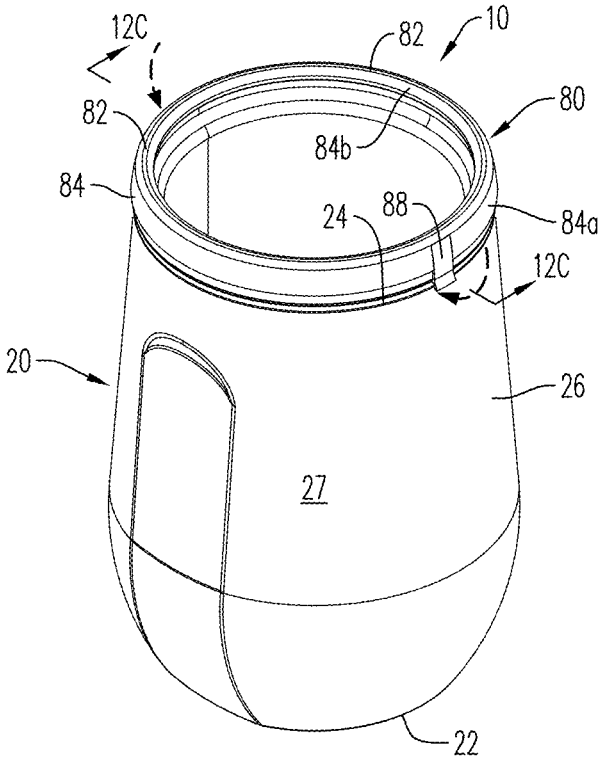
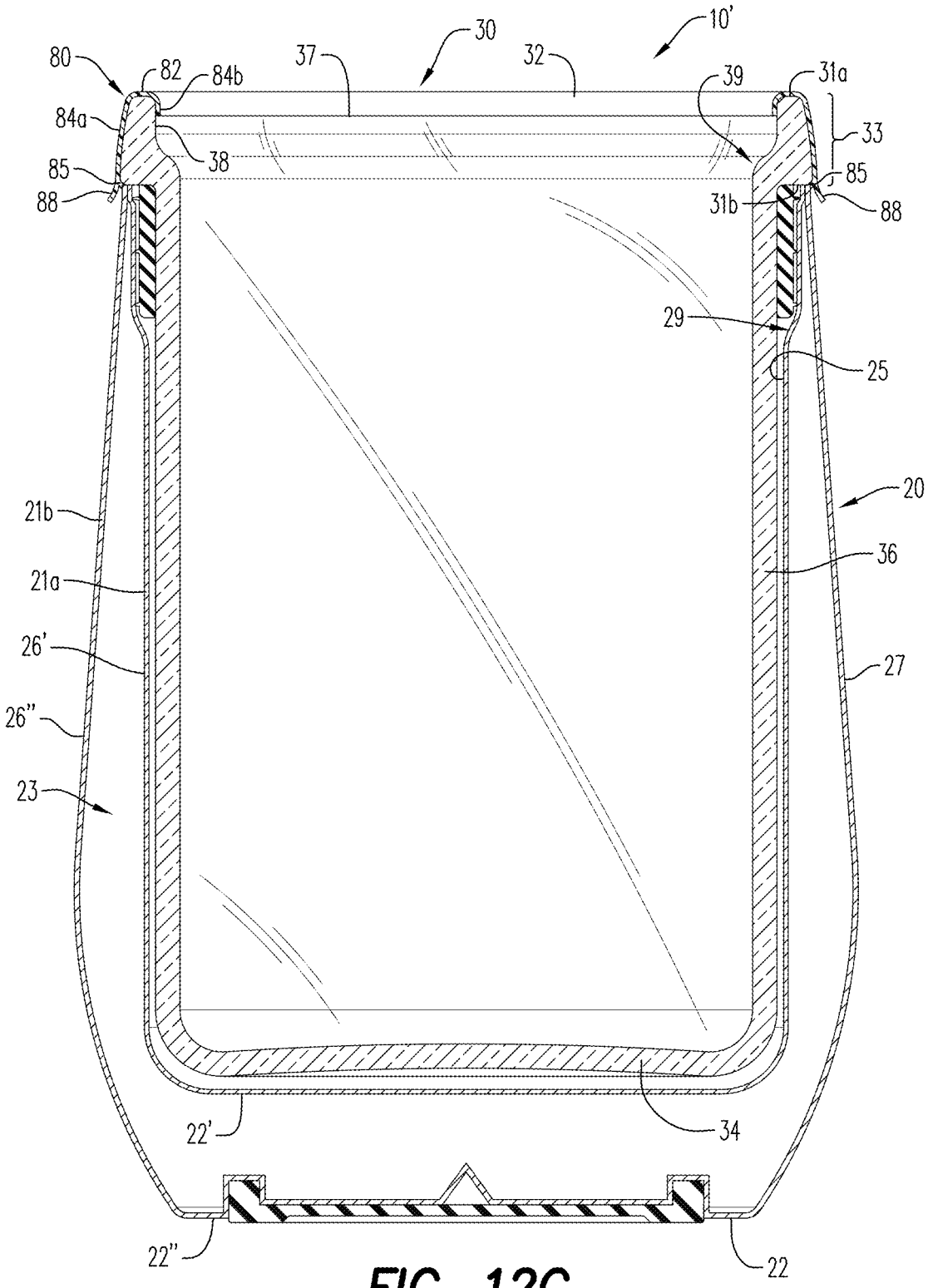


FIG. 12B


10'
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31a
84a
38
33
85
85
88
88
31b
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25
20
21b
36
21a
26'
27
26"
23
22'
34
22"
22

FIG. 12C

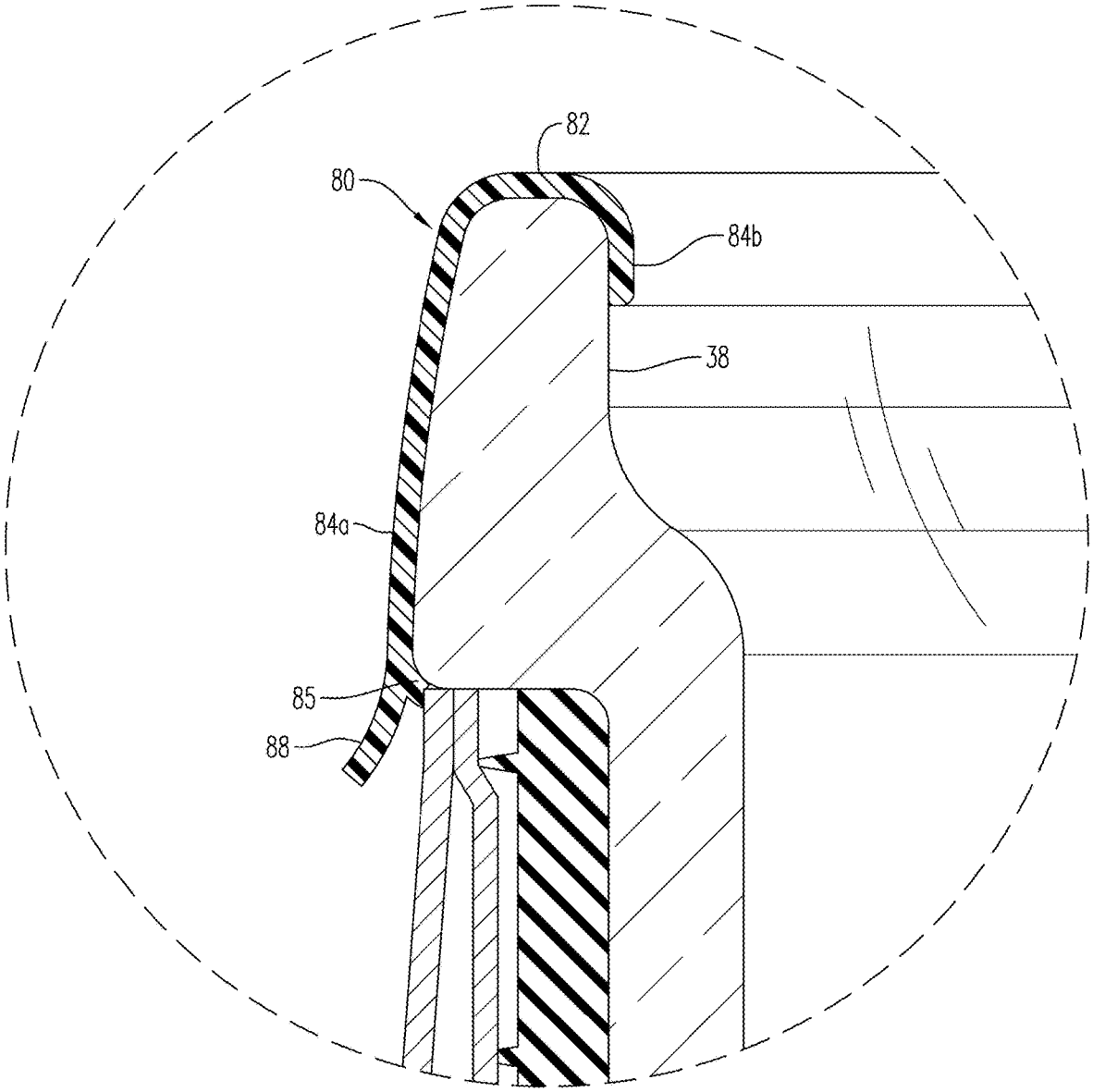


FIG. 12D

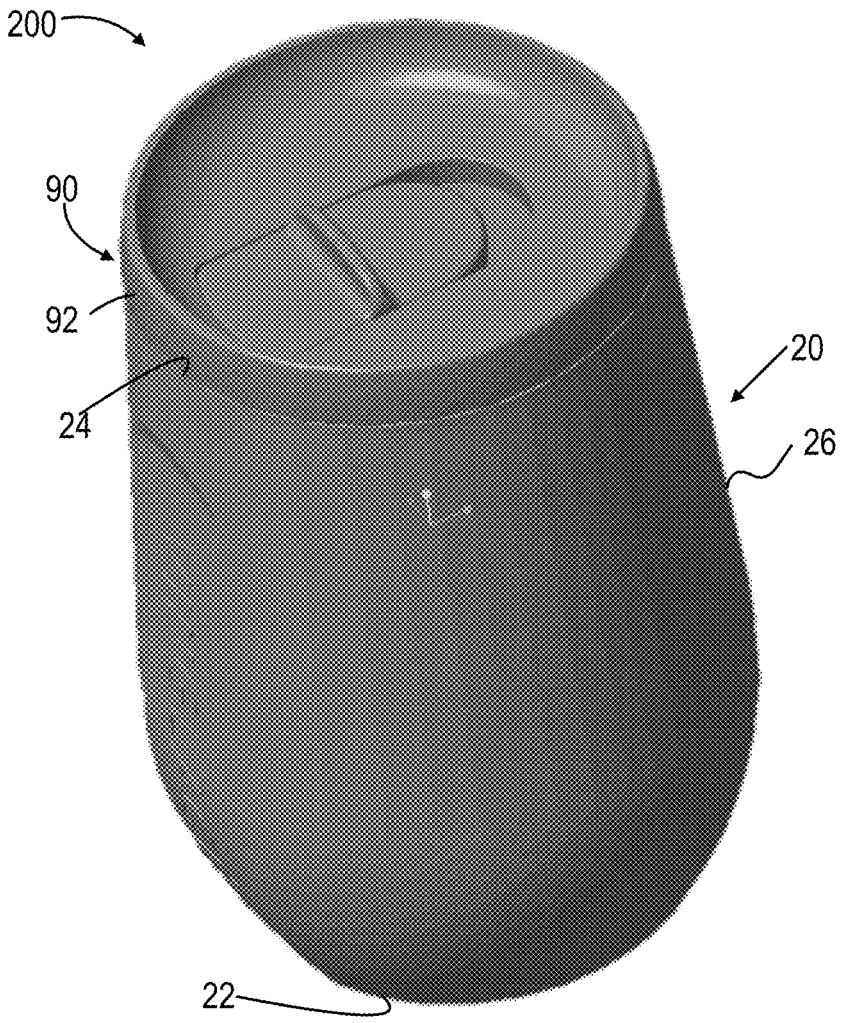
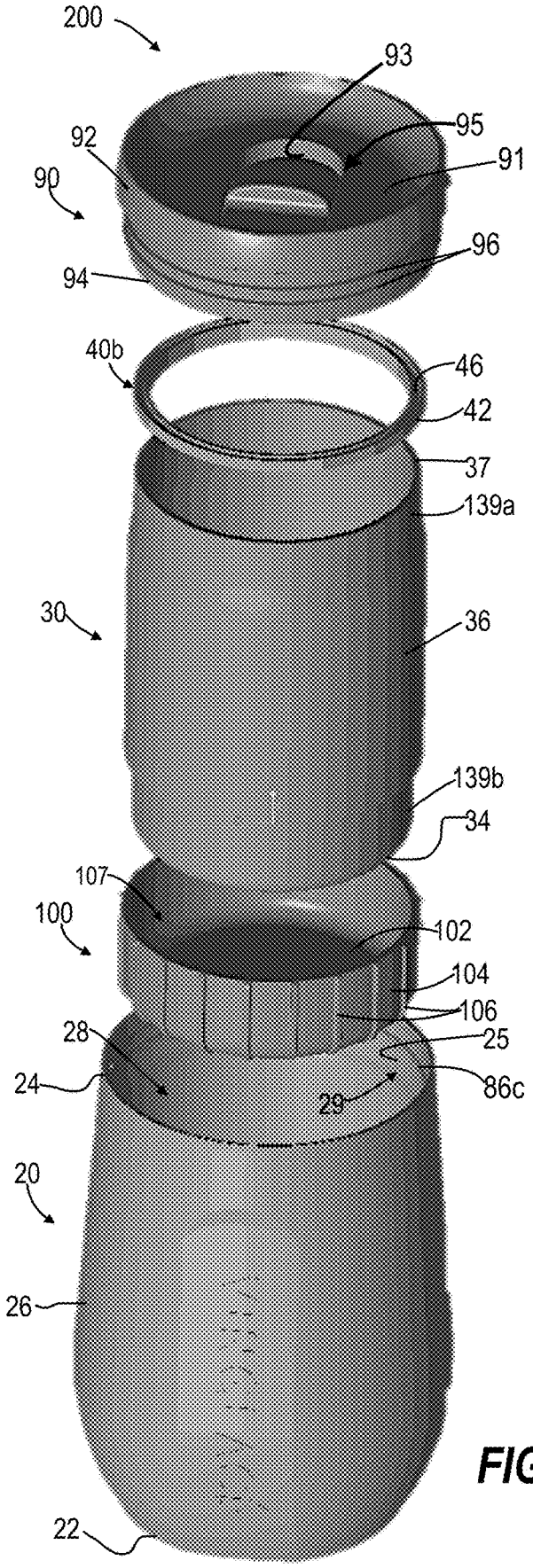


FIG. 13


200
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90
96
94
40b
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42
37
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139b
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28
25
24
29
86c
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26
22

FIG. 14

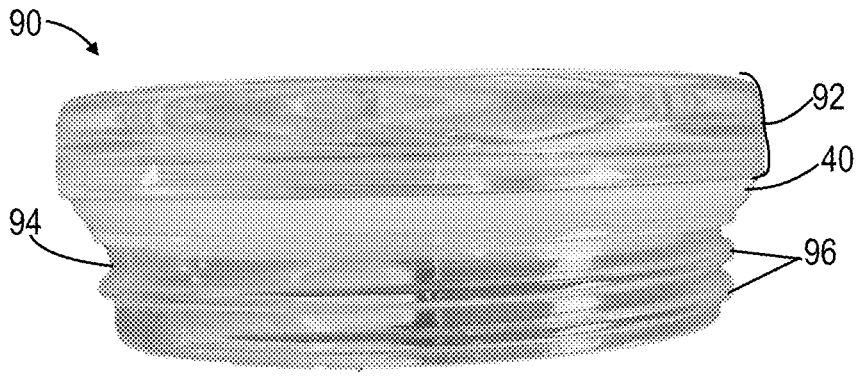


FIG. 15A

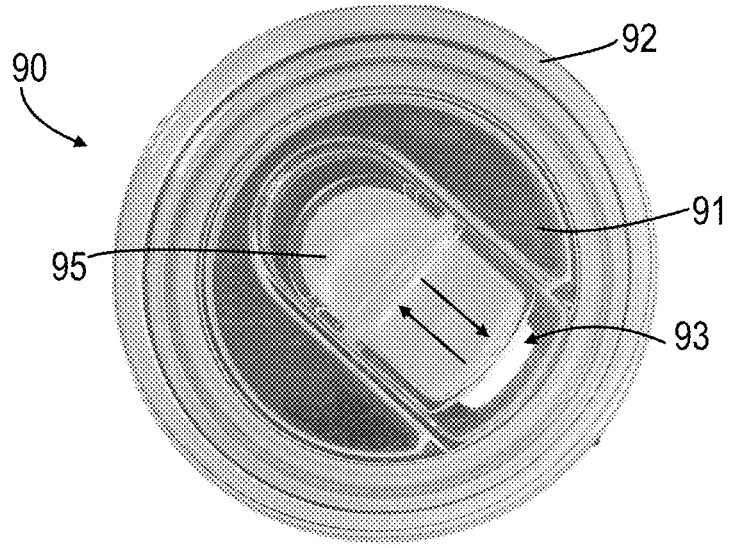
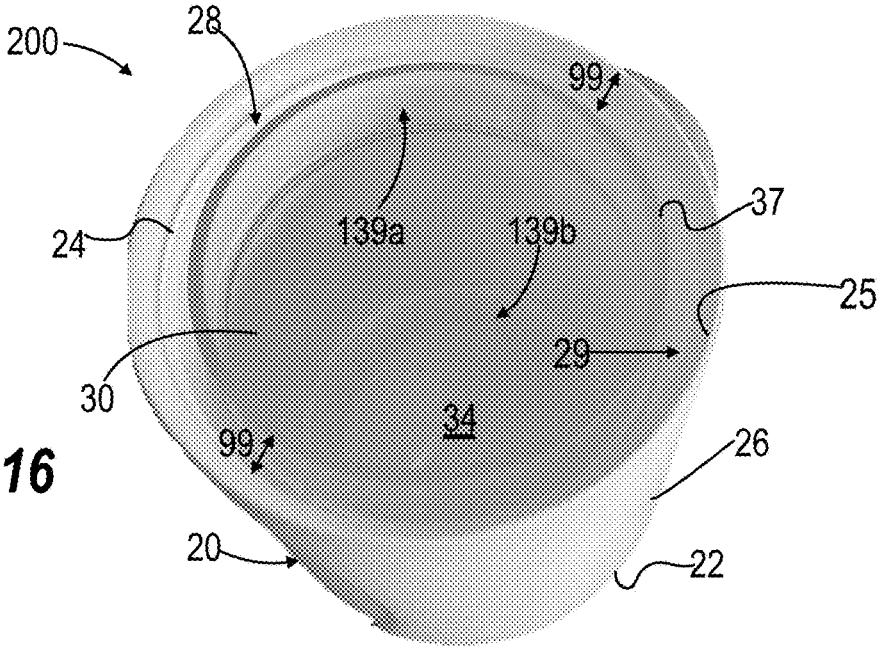


FIG. 15B


200
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139b
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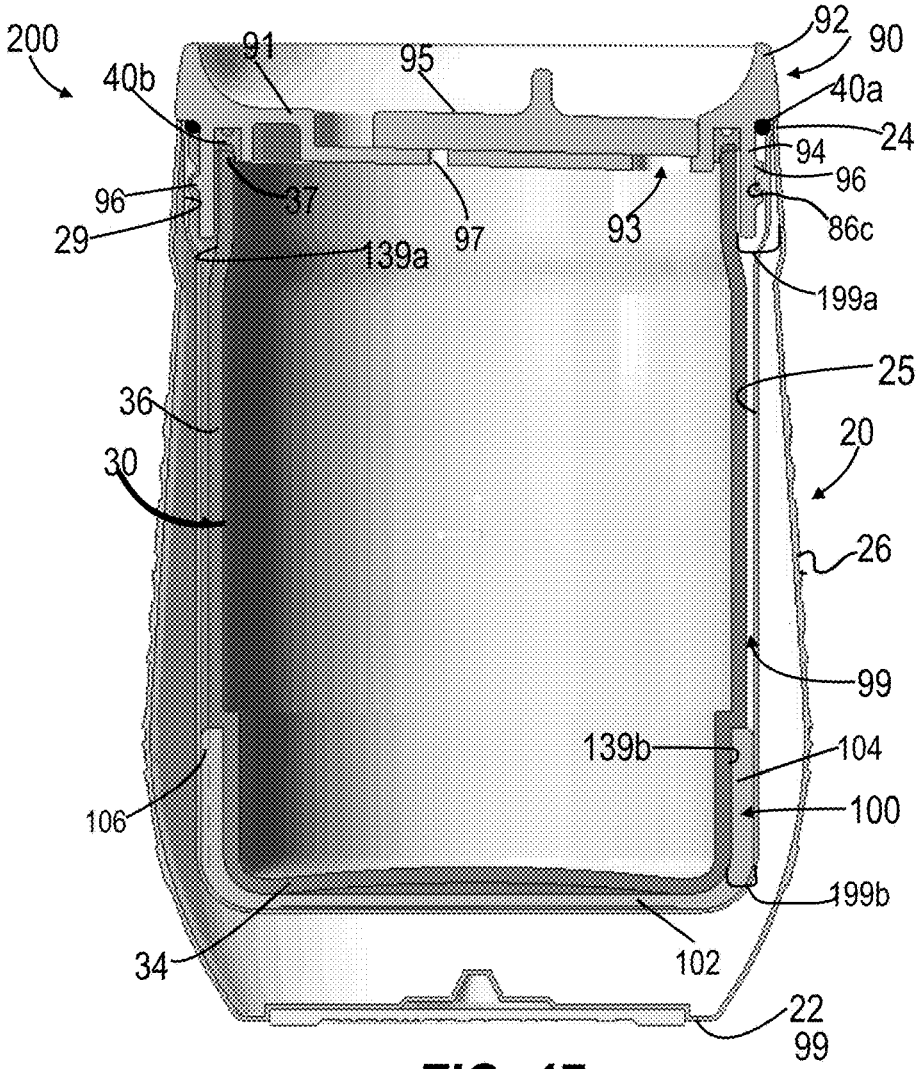
22

FIG. 16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40a
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93
29
139a
86c
199a
25
36
20
30
26
99
139b
104
106
100
199b
34
102
22
99

FIG. 17

INSULATED FOOD AND BEVERAGE CONTAINER

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001] This application is a Continuation-in-Part of U.S. Non-Provisional application Ser. No. 16/863,379 filed Apr. 30, 2020, which is a Continuation-in-Part Application of U.S. Non-provisional application Ser. No. 16/100,153 filed Aug. 9, 2018, which claims the benefit of U.S. Provisional Application No. 62/653,185 filed Apr. 5, 2018, each of which is incorporated herein by reference in its entirety.

FIELD OF THE DISCLOSURE

[0002] An insulated container for maintaining the temperature of food and/or beverage contained therein is generally described. More specifically, an insulated container having a vacuum-insulated outer container and a removable glass insert that protects a user's lips from contacting the outer container, is described.

BACKGROUND OF THE DISCLOSURE

[0003] Maintaining the temperatures of food and beverages is vital to enjoying the complete characteristics they have to offer. Various types of containers are used to maintain the temperatures of the contents (food or beverage) of such containers. For instance, when beverages are placed in such containers, ice is often added to the beverages, such that that they are in contact with the ice and become cooler based on the contact. A disadvantage with such coolers is that once the ice melts, it dilutes the beverage contained therein and the beverage may become warm. Another disadvantage is that once the beverage has been in the container for some time, large amounts of liquid (i.e., condensation) may form on the external surface of the container, which may make the container slippery and cause it to fall out of the user's hands. This may be dangerous to the user and others nearby, particular when the containers are made of glass. In some instances, when the contents of the container are hot (such as soup or other heated food), the container may be too hot and uncomfortable to the user's hands.

[0004] Some insulating containers may be made of metals. While such metallic containers may provide insulative properties, a disadvantage with these metallic containers is that they may result in the leaching of metals into the food or beverages contained therein. Some metallic containers may be made of stainless steel, which is often manufactured using a nickel alloy, such as nickel-iron. Iron and nickel have been found to leach into some alkaline and acidic foods and beverages, which may be hazardous to a user's/consumer's health.

[0005] In view of the disadvantages associated with presently available food and beverage containers, there is a need for an insulating container that maintains the temperature of food or beverages, and prevents the formation of condensation on an external surface of the container. Additionally, there is a need for an insulating container that maintains the temperature of hot or cold food and/or beverages contained therein, while also reducing a user's exposure to leached metals.

BRIEF DESCRIPTION OF THE EXEMPLARY EMBODIMENTS

[0006] According to an aspect, the present embodiments may be associated with an insulated container. The insulated container includes a double-walled structure. The double-walled structure is vacuum-insulated and is composed of a metal. A glass structure is arranged within a hollow interior of the double-walled structure and may be removed for cleaning or replacement. The glass structure includes a body and a sipping portion extending from the body. The sipping portion protrudes from the open end of the double-walled container, and provides hygienic /sanitary protection so that a user's lips do not come into contact with the double-walled structure. The insulated container further includes a deformable flange that secures the glass structure to the double-walled structure.

[0007] According to an aspect, the present embodiments may also be associated with a vacuum-insulated container that maintains the temperature of hot or cold food and/or beverages contained therein. The vacuum-insulated container includes an inner container and an outer container spaced apart from the inner container so that a gap is formed between them. The gap is evacuated of air, and the inner container and the outer container are coupled and sealed at their respective open ends. The vacuum-insulated container further includes a glass structure arranged within the inner container, and a deformable flange that secures the glass structure to the inner container. Food and/or beverages positioned in the vacuum-insulated container are not in direct contact with the inner or outer containers, but receive the benefit of imparted by the evacuation of air between the inner or outer containers. The glass structure includes a body and a sipping portion that extends from the open ends of the inner and outer containers. The sipping portion allows users to drink from the vacuum-insulated container without having their lips directly contact the inner and outer containers. The deformable flange may be compressed against an inner surface of the inner container in order to secure the glass structure in place.

BRIEF DESCRIPTION OF THE DRAWINGS

[0008] A more particular description will be rendered by reference to specific embodiments thereof that are illustrated in the appended drawings. Understanding that these drawings depict only typical embodiments thereof and are not therefore to be considered to be limiting of its scope, exemplary embodiments will be described and explained with additional specificity and detail through the use of the accompanying drawings in which:

[0009] FIG. **1**A is a top down, perspective view of an insulated container, according to an embodiment;

[0010] FIG. **1**B is a bottom, perspective view the insulated container of FIG. **1**A, illustrating a coaster according to an embodiment;

[0011] FIG. **1**C is a side, perspective view of the insulated container of FIG. **1**A;

[0012] FIG. **1**D is a top down, perspective view of an insulated container, according to an embodiment;

[0013] FIG. **1**E is a bottom, perspective view the insulated container of FIG. **1**D, illustrating a coaster according to an embodiment;

[0014] FIG. **2** is a cross-sectional view of a double-walled structure of the insulated container of FIG. **1**A;

[0015] FIG. **3**A is an exploded view of an insulated container including a deformable flange, according to an embodiment;
[0016] FIG. **3**B is a partial perspective and exploded view of an insulated container including a gasket, according to an embodiment;
[0017] FIG. **3**C is a perspective view of the gasket of FIG. **3**B;
[0018] FIG. **4**A is a perspective view of a flange positioned on a glass structure of the insulated container of FIG. **2**;
[0019] FIG. **4**B is another perspective view of a flange positioned on a glass structure of the insulated container of FIG. **2**;
[0020] FIG. **5**A is a side view of a flange of the insulated container of FIG. **2**;
[0021] FIG. **5**B is a top view of a flange for use with an insulated container, according to an embodiment;
[0022] FIG. **5**C is a top, perspective view of a flange for use with an insulated container, according to an embodiment;
[0023] FIG. **5**D is a side, perspective view of a flange for use with an insulated container, according to an embodiment;
[0024] FIG. **6**A is a side, perspective view of an insulated container, according to an embodiment;
[0025] FIG. **6**B is a top down, perspective view of the insulated container of FIG. **6**A;
[0026] FIG. **6**C is a top down, perspective view of the insulated container of FIG. **6**A, illustrating an inner surface and stepped portions of a double-walled structure, according to an embodiment;
[0027] FIG. **6**D is a side, perspective view of an insulated container including a glass structure having a frustoconical shape, according to an aspect;
[0028] FIG. **6**E is a top down, perspective view of the insulated container of FIG. **6**D;
[0029] FIG. **6**F is a side, perspective of the glass structure of the insulated container of FIG. **6**D;
[0030] FIG. **7** is a side, perspective view an insulated container, illustrating indentations formed in an external surface of the container, according to an aspect;
[0031] FIG. **8** is a cross-sectional view of a vacuum-insulated container including inner and outer containers, according to an embodiment;
[0032] FIG. **9**A is a side view of an insulated container, illustrating bilateral indentations formed in an external surface of the container of FIG. **1**A;
[0033] FIG. **9**B is side view of an insulated container, illustrating bilateral indentations formed in an external surface of the container of FIG. **1**D;
[0034] FIG. **10**A is a partial exploded view of an insulating container including a collar, according to an aspect;
[0035] FIG. **10**B is a perspective view of the insulating container of FIG. **10**A, illustrating the collar secured to the insulating container, according to an aspect;
[0036] FIG. **10**C is a cross-sectional view of insulating container of FIG. **10**B;
[0037] FIG. **10**D is a partial view of the cross-sectional view of the insulating container of FIG. **10**C;
[0038] FIG. **11**A is a partial exploded view of an insulating container including a collar, according to an aspect;
[0039] FIG. **11**B is a perspective view of the insulating container of FIG. **11**A, illustrating the collar secured to the insulating container, according to an aspect;
[0040] FIG. **11**C is a cross-sectional view of insulating container of FIG. **11**B;
[0041] FIG. **12**A is a partial exploded view of an insulating container including a collar, according to an aspect;
[0042] FIG. **12**B is a perspective view of the insulating container of FIG. **12**A, illustrating the collar secured to the insulating container, according to an aspect;
[0043] FIG. **12**C is a cross-sectional view of insulating container of FIG. **12**B;
[0044] FIG. **12**D is a partial view of the cross-sectional view of the insulating container of FIG. **12**C;
[0045] FIG. **13** is a perspective view of an insulating container including a cover, according to an aspect;
[0046] FIG. **14** is an exploded view of the insulating container of FIG. **13**;
[0047] FIG. **15**A is a side view of a cover configured for use with the insulating container of FIG. **13**;
[0048] FIG. **15**B is a top view of the cover of FIG. **15**A;
[0049] FIG. **16** is a top down, perspective view of the insulating container of FIG. **13** including a glass structure; and
[0050] FIG. **17** is a cross-sectional view of the insulating container of FIG. **13**.
[0051] Various features, aspects, and advantages of the embodiments will become more apparent from the following detailed description, along with the accompanying figures in which like numerals represent like components throughout the figures and text. The various described features are not necessarily drawn to scale, but are drawn to emphasize specific features relevant to some embodiments.
[0052] The headings used herein are for organizational purposes only and are not meant to limit the scope of the description or the claims. To facilitate understanding, reference numerals have been used, where possible, to designate like elements common to the figures.

DETAILED DESCRIPTION

[0053] For purposes of illustrating features of the embodiments, examples will now be introduced and referenced throughout the disclosure. Those skilled in the art will recognize that these examples are illustrative and not limiting, and are provided purely for explanatory purposes.
[0054] FIGS. **1**A-**3**B, **6**A-**7** and **9**A-**9**B illustrate an insulated container **10**, and its associated components. The insulated container **10** may include a double-walled structure **20**, which may be vacuum-insulated. The type of material selected to form the double-walled structure **20** may be based at least in part on the material's capability for repeated and long-term use. According to an aspect, the double-walled structure **20** is composed of a metal, such as stainless steel. The type of metal selected for the double-walled structure may be based, at least in part, on its strength. For example, the double-walled structure **20**, when made of stainless steel, may have superior strength-to-weight ratio, which may help to form a more stable insulated container **10**, as compared to containers composed of aluminum, glass, ceramic, or various plastic materials.
[0055] The double-walled structure **20** includes a closed end/base **22** and an open end/rim portion **24**. As illustrated in FIGS. **1**B and **1**E, the closed end **22** is generally planar and may include a raised platform/coaster **70**. The coaster **70** may be dimensioned so that it covers less than a total surface area of the closed end **22**. The coaster f**70** may include and/or be formed from materials that reduce friction

between the double-walled structure **20** and smooth/slippery surfaces, such as glass, granite, wood, and the like. According to an aspect, the coaster **70** is formed from a variety of materials, including rubber, plastic, and foam, as would be understood by one of ordinary skill in the art. The coaster **70** may help stabilize the insulated container **10** when the insulated container **10** is positioned on slippery surfaces. The coaster **70** may help prevent potential spill of contents of the insulated container **10** and, in some instances, damage of the surface on which it is placed.

[0056] A side wall **26** extends between the closed and open ends **22**, **24**. The side wall **26** and the closed end **22** together form a hollow interior/internal space **28**, which receives materials or additional structures/containers therein. According to an aspect, the side wall **26** has a generally circular cross-section (see, for example, FIG. **6**B) along at least a portion of its length L**1** (FIG. **1**C). As illustrated in FIGS. **1**D-**1**E, the outer diameter of the double-walled structure **20** may increase from the closed end **22** to the open end **24**. According to an aspect and as illustrated in FIGS. **1**A-**1**C, the side wall **26** is contoured so that it has a generally convex outer surface **27** close to the closed end **22**. In this configuration, the outer diameter of the double-walled structure **20** may increase from the closed end **22** to an intermediate position **26***a* along the side wall **26** (FIGS. **1**A-**1**B, and **2**), and decrease from the intermediate position **26***a* to the open end **24**, so that the double-walled structure **20** has a contoured side wall **26**. In an embodiment, and as illustrated in FIG. **1**D and FIG. **1**E, the side wall **26** is contoured so that it has a generally convex outer surface **27** close to the open end **24**. The contoured side wall **26** may provide increased available space (that may be subjected to a vacuum) between walls of the double-walled structure.

[0057] As illustrated in FIG. **2**, FIGS. **6**B-**6**C and FIG. **6**E, the double-walled structure **20** may include at least one stepped portion **29** formed in its inner surface **25**. The stepped portion **29** is illustrated as partially extending from the open end **24** towards the closed end **22**. The inner surface **25** of the double-walled structure **20** may be generally planar, with the stepped portion **29** having an increased inner diameter. As illustrated in FIG. **2**, the double-walled structure **20** has a first inner diameter ID**2** along the stepped portion **29**, and a second inner diameter ID**3** extending from the stepped portion **29** to the closed end **22**. The first inner diameter ID**2** may be greater than the second inner diameter ID**3**, which may help facilitate securing an additional structure within the hollow interior **28**, as described in detail hereinbelow. According to an aspect and as illustrated in FIG. **2**, the second inner diameter ID**3** may be substantially uniform from the stepped portion **29** towards the closed end **22** of the double-walled structure **20**. In an embodiment, the second inner diameter ID**3** may gradually decrease from the stepped portion **29** towards the closed end **22** of the double-walled structure **20** to receive a glass structure **30** (as seen in, for instance, FIGS. **6**D-**6**F).

[0058] According to an aspect and as illustrated in FIG. **7**, the double-walled structure **20** may include a plurality of indentations **50** formed in its outer surface **27**. The indentations **50** may be recessed areas/depressions formed in the side wall **26**. The indentations **50** may be recessed from the overall structure, and according to one aspect the indentions **50** maintain an outwardly rounded/curved surface (i.e., bowed area) or a flattened area. In the illustrated embodiment, the indentations **50** extend from the closed end **22** of the double-walled structure **20** to an intermediate position between the closed end **22** and the open end **24**. However, other possibilities are contemplated. In an embodiment, the indentations **50** are configured as rectangular-shaped areas, the longer sides of the rectangular-shaped areas extending from the closed end **22** towards the open end **24**. The indentations **50** partially extend from the outer surface **27** inward towards the inner surface **25** of the double-walled structure **20**, and may function as grip areas/surfaces for placement of the user's fingers to help provide a more secure/stable grip for a user of the insulated container **10**. According to an aspect and as illustrated in FIGS. **6**A-**6**D and FIG. **7**, the indentions **50** may include one of more tactile portions **52** (such as stamped letters, numbers, or markings) that further help to enhance the user's grip on the insulated container **10**. The tactile portion **52** may include raised or indented (not shown) areas. The indentations **50** may also enhance the user's comfort when holding the insulated container **10**, accessing the contents of the insulated container **10**, or pouring or drinking from the insulated container **10**. In some embodiments, the indentations **50** may span more than 50% of a length L**1** of the double-walled structure **20**. The indentations **50** may span from about 50% to about 85% the total length L**1** of the double-walled structure **20**. According to an aspect, the indentations **50** may be from about 30 mm to about 40 mm wide.

[0059] In an embodiment and as illustrated in FIG. **9**A and **9**B, the indentations **50** are bilateral indentations **50** (i.e., a pair of indentations) formed on opposite portions of the outer surface **27** of the double-walled structure **20**. It is to be understood, however, the number of indentations **50** provided on the outer surface **27** may be modified. For instance, a single indentation **50** may be formed in the double-walled structure **20**. According to an aspect, 3, 4, 5, or more indentations **50** may be provided.

[0060] As illustrated in FIGS. **1**A-**1**E, FIGS. **3**A-**3**B, FIGS. **4**A-**4**B, FIGS. **6**A-**6**B, FIGS. **6**D-**6**E and FIG. **7**, the insulated container **10** further includes a glass structure **30**. The glass structure **30** is configured for receiving food and beverage therein, so that the food and beverage does not contact the double-walled structure **20**. The glass structure **30** is dimensioned to be removably arranged within the hollow interior **28** of the double-walled structure **20**. When arranged and secured within the double-walled structure **20**, the glass structure **30** may be protected from breakage, which may occur if a glass vessel slips and falls from a user's hands. According to an aspect, the glass structure has a length L**3** that is less than (see, for instance, FIG. **6**D) or substantially the same as (not shown) the length L**1** of the double-walled structure **20**.

[0061] According to an aspect, the glass structure **30** includes a body **36** having an open upper end **37** and a base end (second end or closed end) **34**. The body **36** may be formed with a variety of shapes that facilitate arrangement of the glass structure **30** within the double-walled structure **20**. According to an aspect and as illustrated in FIG. **6**D-**6**F, the body **36** may taper from the upper end **37** towards the base end **34**, such that the body **36** has a frustoconical shape. In an embodiment and as illustrated in FIG. **6**A, the body **36** is configured as a substantially cylindrical structure. The dimensions of the glass structure **30**, including its upper end **37** and base end **34**, range from amounts effective for retaining food and/or beverage within the glass structure **30**, and removing the food and/or beverage therefrom.

[0062] The glass structure **30** further includes a sipping portion **32** extending from the open upper end **37** of the body **36**. According to an aspect and as illustrated in FIG. **1**C, FIGS. **3**A-**3**B, FIGS. **4**A-**4**B, FIGS. **6**A-**6**B, and FIGS. **6**D-**6**F, the sipping portion **32** includes a shoulder **31***b*, a sipping end **31***a*, and a side wall **33** extending between the sipping end **31***a* and the shoulder **31***b*. According to an aspect, the side wall **33** extends around the upper end **37** of the glass structure **30**. The side wall **33**, including the shoulder **31***b* protrudes from the upper end **24** of the double-walled structure **20**. According to an aspect and as illustrated in FIG. **6**F, the side wall **33** may be substantially straight/linear. In an embodiment (not shown), the side wall **33** of the sipping portion **32** flares outwardly, with an outer diameter OD**4** of the sipping end **31***a* being greater than an outer diameter OD**1** of the shoulder **31***b*. According to an aspect and as illustrated in FIG. **6**A, the sipping portion **32** flares inwardly, with the outer diameter OD**4** of the sipping end **31***a* being less than the outer diameter OD**4** of the shoulder **31***b*. According to an aspect and as illustrated in FIGS. **7**-**8**, the side wall **33** is outwardly bowed/curved, which may enhance a user's comfort when drinking or sipping from the container **10**.

[0063] As illustrated in FIG. **6**F, the shoulder **31***b* of the sipping portion **32** is seated on top of the open end **24** of the double-walled structure **20**. The sipping end **31***a* of the sipping portion **32** extends away from the open end **24**, thereby preventing users from directly contacting their lips to the double-walled structure **20**. This may eliminate or substantially reduce the risk that users will directly contact their lips with the material used to make the double-walled structure (such as metallic materials).

[0064] The glass structure **30** further includes an outer diameter OD**2** along the body **36**, extending from the upper end **37** to the base end **34**. According to an aspect the outer diameter OD**2** of the body **36** is less than the outer diameters OD**1**, OD**4** of the sipping and shoulder ends **31***a*, **31***b* of the sipping portion **32**. The outer diameter OD**2** of the body **36** may be less than a first inner diameter ID**2** of the double-walled structure **20**, so that the body **36** of the glass structure **30** can be disposed in the hollow interior **28** of the double-walled structure **20**, with only the sipping portion **32** outwardly extending therefrom. According to an aspect, when the glass structure **30** is disposed in the hollow interior **28** of the double-walled structure **20**, a total length L**2** of the container **10** is greater than the length L**1** of the double-walled structure **20**.

[0065] As illustrated in FIG. **1**A, FIG. **1**D and FIG. **6**F, the glass structure **30** may further include one or more stepped interior portions (recesses or contours) **39** at the sipping portion **32**. The stepped interior portion **39** is formed in the inner surface of the glass structure **30**. The stepped interior portion **39** may aid in enhancing a user's comfort when drinking from the container.

[0066] As illustrated in FIGS. **3**A-**3**B, FIGS. **4**A-**4**B, FIGS. **6**A-**6**B, and FIGS. **6**D-**6**E, the insulated container **10** further includes a deformable flange **40**. The deformable flange **40** is positioned around the body **36** of the glass structure **30**, so that when the glass structure **30** is positioned within the hollow interior **28** of the double-walled structure, the deformable flange **40** is compressed between the glass structure **30** and the inner surface **25** of the double-walled structure. The deformable flange **40** may help to protect the glass structure **30** from breaking when the glass structure **30** is secured in the double-walled structure **20** by the deformable member **40**.

[0067] According to an aspect, the inner surface **25** of the double-walled structure **20**, along the stepped portion **29**, includes a plurality of ribs (not shown) that receive the protrusions **44** of the deformable flange **40**. This may help facilitate a semi-permanent attachment of the double-walled structure **20** to the glass structure **30**.

[0068] FIGS. **4**A-**4**B and FIGS. **6**A-**6**B, **6**D and **6**F illustrate the generally positioning of the deformable flange **40**. The deformable flange **40** may be positioned on the glass structure **30** from the second end, and moved up towards the shoulder end **31***b* of the sipping portion **32**. FIG. **4**A illustrates the deformable flange **40** extending around the body **36** of the glass structure **30** in a spaced apart configuration from the sipping portion **32**. As illustrated in FIGS. **4**B, **6**A-**6**B, **6**D and **6**F, the deformable flange **40** may be positioned adjacent the shoulder end **31***b* of the sipping portion **32**.

[0069] FIGS. **5**A-**5**D illustrate the deformable flange **40** in more detail. The deformable flange **40** includes a main body **42** that is able to conform to the shape of the glass structure **30**. In an embodiment, when positioned around the body **36** of the glass structure **30**, the deformable flange **40** has a generally cylindrical (FIG. **6**A) or a generally conical or frustoconical shape (FIGS. **6**D and **6**F).

[0070] It is contemplated that the deformable flange **40** may be secured to the glass structure **30** by a friction fit. Additional securing mechanisms may be provided on surfaces of the deformable flange **40** to aid with securing the flange **40** onto to the glass structure **30** and to double-walled structure **30**. According to an aspect, an inner surface **43** of the deformable flange **40** includes a plurality of threads for engaging with corresponding threads formed on the body **36** of the glass structure **30** (not shown). As illustrated in FIG. **5**B, FIG. **5**C and FIG. **5**D, the inner surface **43** of the deformable flange is smooth, which may facilitate ease of placement around the body **36** of the glass structure **30**. The threads of the deformable flange **40** and optionally, the threads on the body **36** of the glass structure **30**, may be one of continuous threads or interrupted threads. As used herein, "continuous threads" may mean a non-interrupted threaded closure having a spiral design (e.g., extending around the skirt like a helix), while "interrupted threads" may mean a non-continuous/segmented thread pattern having gaps/discontinuities between each adjacent thread.

[0071] According to an aspect and as illustrated in FIGS. **5**A-**5**D, the threads may be a plurality of protrusions **44** that extend from an outer surface **41** of the body **42**. The plurality of protrusions may be continuous/uninterrupted (i.e., formed contiguously around the main body **42** of the flange **40**. According to an aspect and as illustrated in FIGS. **5**B-**5**D, the protrusions **44** may be interrupted (i.e., having multiple segments, or the protrusions **44** being spaced apart from each other, that extend generally around a circumference of the body **42**).

[0072] The protrusions **44** of the deformable flange **40** are flexible and engage the inner surface **25** of the double-walled structure **20**. According to an aspect, the deformable flange **40** engages the inner surface **25** of the double-walled structure **20**, at the stepped portion **29**. The deformable flange **40** may be composed of any material that is flexible, and may be repeatably compressed and/or is able to maintain

compression for an extend period of time. According to an aspect, the deformable flange **40** is composed of at least one of rubber, plastic, and silicone. The deformable member may be made by formed by an injection molding process, or in any other suitable manner.

[0073] The deformable flange **40** has an inner diameter ID**1** and an outer diameter OD**3**. The inner diameter ID**1** of the deformable flange **40** may be substantially the same size as, or slightly less than, the second diameter OD**2** of the body **36** of the glass structure **30**. This allows the deformable flange to be secured to the body **36** without slipping off. According to an aspect, the outer diameter OD**3** of the deformable flange **40**, includes the protrusions **44**, and is greater than the inner diameter ID**2** of the double-walled structure **20**. When the deformable flange **40** is secured to the glass structure **30**, and the glass structure **30** including the deformable flange is arranged in the hollow interior **28** of the double-walled structure **20**, the deformable flange **40** is compressed between the inner surface **25** of the double-walled structure **20** and the glass structure **20**.

[0074] According to an aspect and as illustrated in FIG. **3**B, the container **10** includes a gasket **60**. The gasket **60** may be secured between the glass structure **30** and the double-walled structure **20**. The gasket **60** engages with the inner surface **25** of the double-walled structure **20**, at the stepped portion **29**, and the body **36** of the glass structure **30**, adjacent the lip portion **33**. The gasket **60** may be utilized with or without the deformable flange **40** positioned between the structures **20**, **30**. According to an aspect, when the container **10** includes the gasket **60** and the deformable flange **40**, the gasket **60** is adjacent the lip portion **33** of the glass structure **30**, and the deformable flange **40** is adjacent the gasket **60**, such that the gasket **60** is sandwiched between the shoulder portion **31***b* of the sipping portion **32** of the glass structure **30** and the deformable flange **40**.

[0075] The gasket **60** may help secure the glass structure **30** to the double-walled structure **20**. According to an aspect and as illustrated in FIG. **3**C, the gasket **60** includes a plurality of threads **62** extending along at least one of its inner **61** surface and outer surface **63**. The threads **62** may be continuous threads or interrupted threads, selected, at least in part, on the corresponding threads formed on at least one of the body **36** of the glass structure **30** and the inner surface of the double-walled structure (at the stepped portion). The gasket may be dimensioned similar to the deformable flange **40**, described hereinabove, with inner and outer diameters that facilitate its ability to seal areas between the glass structure **30** and the double-walled structure **20**, as well as secured the glass and double-walled structures **30**, **20** together.

[0076] According to an aspect, the gasket **60** helps seal against the introduction of food contents and fluids in areas between the glass structure **30** and the double-walled structure **20**. The gasket **60** may help to absorb vibration around the glass structure **30**, and prevent the glass structure **30** from breaking in the event that the container **10** falls from a surface or out of a user's hands. The gasket **60** may be formed from plastic, silicone, rubber, or any type of material that provides sealing and shock absorption properties. According to an aspect, the gasket **60** may be positioned between the shoulder end **31***b* of the sipping portion **32** and the deformable member **40**.

[0077] Embodiments of the disclosure are further directed to a vacuum-insulated container **10'**. The vacuum-insulated container/insulated container **10'** may be configured substantially as described hereinabove with respect to FIGS. **1**A-**3**B, **6**A-**7** and **9**A-**9**B.

[0078] As shown in FIG. **8** and according to an aspect, the vacuum-insulated container **10'** includes an inner container **21***a*, and an outer container **21***b* spaced apart from the inner container **21***a* (the inner and outer containers **21***a*, **21***b* may function as the double-walled structure **20** described hereinabove and illustrated in FIGS. **1**-**3**B, **6**A, **6**B and **7**). The inner and outer containers **21***a*, **21***b* may both be formed of a metal, such as stainless steel. A plurality of indentations **50**, substantially as described hereinabove and illustrated in FIG. **7** may be formed in an external surface **27** of the outer container **21***b*. The indentations **50** facilitate a comfortable use of the vacuum-insulated container **10'**. The inner container **21***a* has a generally cylindrical shape, while the outer container **21***b* has is contoured so that it is generally bell-shaped. A gap **23** is formed between the inner and outer containers **21***a*, **21***b*. The gap **23** between is devoid of air by virtue of creating a vacuum between the inner and outer containers **21***a*, **21***b*. The created vacuum reduces the number of molecules present in the gap **23** that could potentially transfer heat by conduction.

[0079] Each of the inner and outer containers **21***a*, **21***b* includes a closed end **22'**, **22"** and an open end **24'**, **24"**. A side wall **26'**, **26"** extends between each of the respective closed ends **22'**, **22"** and respective open ends, **24'**, **24"** of the containers **21***a*, **21***b*. The inner container **21***a* and the outer container **21***b* are coupled and sealed along their respective open ends **24'**, **24"** so that external air is prevented from passing through the seal and into the gap **23**. This may retard the transference of heat by conduction and/or convection, so that food particulates and/or beverages positioned in vacuum-insulated container **10'** do not gain or lose heat.

[0080] The inner container **21***a* includes at least one stepped portion **29** formed in its inner surface **25**. As described hereinabove with respect to the double-walled structure **20**, the stepped portion **29** partially extends from the open end **24'** towards the closed end **22** of the inner container **21***a*. The stepped portion **29** is configured for engaging at least one of a deformable flange **40** and a gasket **60**, which secures a glass structure **30** that is inserted into the inner container **21***a*. The deformable member **40** and gasket **60** may be configured substantially as described hereinabove and illustrated in FIGS. **3**C and **5**A-**5**D. According to an aspect, the inner container **21***a* includes a first inner diameter ID**2** along the stepped portion **29**, and a second inner diameter ID**3** extending from the stepped portion **29** to the closed end **22'**. The first inner diameter ID**2** is greater than the second inner diameter ID**3**, which facilitates the positioning/placement of the deformable flange **40** and/or the gasket **60** adjacent the stepped portion **29**.

[0081] The vacuum-insulated container **10'** further includes a glass structure **30** arranged within a hollow interior **28** of the inner container **21***a*, and the deformable flange **40** circumferentially extending around the glass structure **30**. In this embodiment, the glass structure **30** is similar to the glass structure **30** illustrated in FIGS. **1**A-**1**E, FIGS. **3**A-**3**B, FIGS. **4**A-**4**B, FIGS. **6**A-**6**B, and FIGS. **6**D-**6**F, and described hereinabove. Thus, for purposes of convenience and not limitation, the various features, attributes, and properties, and functionality of the glass structure **30** and the deformable flange **40** discussed in connection with FIGS.

1A-1E, FIGS. 3A-3B, FIGS. 4A-4B, FIGS. 6A-6B, and FIGS. 6D-6F are not repeated here.

[0082] The glass structure **30** is dimensioned to partially fit in the inner container **21***a* of the vacuum-insulated container **10'**, with its sipping portion **32** extending from the hollow interior **28** of the inner container **21***a*. As illustrated in FIG. **8**, the shoulder end **31***b* of the sipping portion **32** extends over the respective open ends **24'**, **24"** of the containers **21***a*, **21***b*. It is contemplated that the upper end **37** of the body **36** of the glass structure **30** may be secured to the open ends **24'**, **24"**, at least in part by the deformable flange **40** extending around the circumference of the glass structure **30** and being secured at the stepped portion **29** of the inner container **21***a*.

[0083] According to an aspect, the outer diameter OD**2** of the body **36** of the glass structure **30** is less than the first inner diameter ID**2** of the inner container **21***a*, which helps to ensure that the body **36** may be received in the inner container **21***a*. According to an aspect the outer diameter OD**2** of the body **36** is less than the outer diameters OD**1**, OD**4** of the sipping and shoulder ends **31***a*, **31***b* of the sipping portion **32**. The shoulder end/portion **31***b* may be seated at the open ends open end **24'**, **24"**of the inner and outer containers **21***a*, **21***b*.

[0084] The plurality of protrusions **44** of the deformable flange **40** engage the inner surface **25** of the inner container **21***a*, and helps to retain the glass structure **30** within the hollow interior **28**. According to an aspect, when the outer diameter OD**3** of the deformable flange **40** is greater than the inner diameter ID**2** of the inner container **21***a*, the deformable flange **40** is compressed between the body **36** of the glass structure **30** and the inner surface **25** of the inner container **21***a*, which may help secure the inner container **21***a*, the deformable flange, and the glass structure **30** together.

[0085] FIGS. **10**A-**10**D, FIGS. **11**A-**11**C and FIGS. **12**A-**12**D illustrate further embodiments of an insulated container **10**. The insulated container **10** includes a double-walled structure **20**, which may be vacuum-insulated and composed of metal. The double-walled structure **20** may be configured substantially as described hereinabove, and as shown in FIGS. **1**A-**3**B, FIGS. **6**A-**7** and FIGS. **9**A-**9**B. Thus, for purposes of convenience and not limitation, the various features, attributes, and properties, and functionality of the glass structure **30** and the deformable flange **40** discussed in connection with FIGS. **1**A-**3**B, FIGS. **6**A-**7** and FIGS. **9**A-**9**B are not repeated here.

[0086] The insulated container **10** further includes a glass structure **30**. The glass structure **30** may be configured substantially as described hereinabove, and as shown in FIGS. **1**A-**1**E, FIGS. **3**A-**3**B, FIGS. **4**A-**4**B, FIGS. **6**A-**6**B, FIGS. **6**D-**6**E and FIG. **7**. Thus, for purposes of convenience and not limitation, the various features, attributes, and properties, and functionality of the glass structure **30** discussed in connection with FIGS. **1**A-**1**E, FIGS. **3**A-**3**B, FIGS. **4**A-**4**B, FIGS. **6**A-**6**B, FIGS. **6**D-**6**E and FIG. **7** are not repeated here.

[0087] As described hereinabove, the glass structure **30** receives food and beverage, so that the food and beverage does not contact the double-walled structure **20**. The glass structure **30** is dimensioned to be removably arranged within the hollow interior **28** of the double-walled structure **20**. When arranged within the double-walled structure **20**, the glass structure **30** may be protected from breakage, which typically occur if a glass vessel slips and falls from a user's hands.

[0088] FIG. **10**A illustrates a collar **80** for being positioned on the glass structure **30**. The collar **80** is positioned over the sipping portion **32** of the glass structure **30**, thereby forming a sipping surface. According to an aspect, the collar **80** is formed from a flexible material, such as rubber or silicone. Alternatively, the collar **80** may be formed from a substantially rigid material such as plastic. The collar **80** may be formed by injection molding or **3**D printing processes. The collar **80** may be biased or frictionally engaged over the sipping portion **32** of the glass structure **30**.

[0089] According to an aspect, the collar **80** includes an end wall **82** and a skirt **84** extending from the end wall **82**. As demonstrated in FIG. **10**B, FIG. **10**C and FIG. **10**D, when the collar **80** is positioned over the sipping portion **32**, the end wall **82** of the collar **80** is in a facing relationship with the sipping end **31***a* of the sipping portion **32**, while the skirt **84** engages the sipping portion **32**. When in engagement with the sipping portion **32**, the collar **80** is retained on the glass structure **30**.

[0090] According to an aspect, the skirt **84** includes a first skirt/outer skirt **84***a* connected to or otherwise extending from a first end of the end wall **82**, and a second skirt/inner skirt **84***b* connected to or otherwise extending from the second end of the end wall **82**. The first skirt **84***a* is spaced apart from the second skirt **84***b*, so that when the collar **80** is positioned over the sipping portion **32** the first skirt **84***a* extends around the outer portion of the sipping portion **32** and the second skirt extends around an inner portion/surface **38** of the sipping portion **32**. FIG. **10**C and FIG. **10**D illustrates a biasing portion **85**, which may include a protrusion, that extends from the first skirt **84***a* in a direction towards the second skirt **84***b*. When the collar **80** is positioned over the sipping portion **32**, the biasing portion **85** may snap around the shoulder end **31***b* of the sipping portion **32**. In embodiments including the protrusion, the protrusion may be dimensioned for frictional engagement with the upper end of the glass structure **30** to further secure the collar **80** to the sipping portion **32**.

[0091] According to an aspect and as described hereinabove, the sipping end **31***a* of the glass container **30** has an outer diameter OD**4** and the shoulder end **31***b* of the glass container **30** has an outer diameter OD**1**. The outer diameter OD**1** of the shoulder end **31***b* may be larger than the outer diameter OD**4** of the sipping end **31***a*, which may help to facilitate securing the collar **80** onto the sipping portion **32**.

[0092] According to an aspect and as illustrated in FIGS. **11**A-**11**C, the first skirt **84***a* is elongated such that it extends over and beyond the sipping portion **32** and around at least a portion of the side wall of the double-walled structure **20**. In this configuration, the collar **80** frictionally engages the side wall of the double-walled structure **20**, such that the collar **80** is retained on the double-walled structure **20** and the glass structure **30**.

[0093] The collar **80** may be threadingly secured to the external surface **27** of the double-walled structure **20**. In this configuration, the elongated first skirt **84***a* includes a thread **86***a* formed in its inner surface and the double-walled structure includes a corresponding thread **86***b* formed on its external surface **27** adjacent the open end **24**. The collar **80** may be positioned over and around the sipping portion **32** (FIG. **11**A) and then rotated so that it is secured to the

insulated container **10** (FIG. **11**B). According to an aspect (not shown), the second skirt **84***b* includes a thread that is engageable with an inner surface **38** of the glass structure **30**. It is contemplated that the collar **80** may include threads on both the first skirt **84***a* and the second skirt **84***b* to secure the collar **80** to the insulated container **10**.

[0094] As seen in FIG. **11**C, when the collar **80** is threadingly secured to the double-walled structure **20**, the elongated first skirt **84***a* extends beyond the shoulder end **31***b* of the glass structure and entirely covers the side wall **33** of sipping portion **82**. When a user drinks from the insulated container **10**, the user's lips only contacts the collar **80**.

[0095] FIGS. **12**A-**12**D illustrate a further embodiment of the insulated container **10**. The insulated container **10** includes a collar **80** including an end wall **82**, a first skirt/outer skirt **84***a* connected to or otherwise extending from a first end of the end wall **82**, and a second skirt/inner skirt **84***b* connected to or otherwise extending from the second end of the end wall **82**. A pivotable lever/wing **88** may also extend from the first end of the end wall **82**. The pivotable lever **88** may be a stamped out or cut out portion of the first skirt **84***a*. The pivotable lever **88** is movable between closed and open configurations. FIG. **12**A illustrates the pivotable lever **88** in an open configuration prior to the collar **80** being positioned on the sipping portion **32** of the glass structure **30**. When the collar **80** is positioned on the sipping portion **32** (FIG. **12**B), the pivotable levers **88** may be moved to the closed configuration and latched under the shoulder end **31***b* of the sipping portion **32** (see FIG. **12**C and FIG. **12**D). This helps to ensure that the collar **80** is fastened to the glass structure **30**. As illustrated in FIG. **12**D, a biasing portion **85**, which may include a protrusion, may be formed on an inner surface of the pivotable lever **88** to help facilitate engagement of the pivotable lever **88** with the shoulder end **31***b* of the sipping portion **32**. The biasing portion **85** may be engageable with the shoulder end **31** of the sipping portion **32**.

[0096] In each of the embodiments described above and illustrated in FIGS. **10**A-**12**C, since the collar **80** is removably secured to the insulated container **10**, when a first person drinks from the insulated container **10**, the collar **80** can be replaced with a second collar **80** so that a second person can drink from the container.

[0097] Further exemplary embodiments of the disclosure are associated with an insulated container **200** as shown in FIGS. **13**-**17**. As seen, for instance, in FIG. **13**, FIG. **14** and FIG. **17**, the insulated container **200** may include a double-walled structure **20** and a glass structure **30** generally configured according to, and to the extent not inconsistent with, the exemplary embodiments described above. Thus, for purposes of convenience and not limitation, various similar features, attributes, properties, and functionality of the double-walled structure **20** and the glass structure **30** discussed in connection with the exemplary embodiments above may not be repeated hereinbelow.

[0098] For example, the double-walled structure **20** may be vacuum-insulated and composed of metal. The double-walled structure **20** includes a closed end **22**, an open end **24**, and a side wall **26** extending between the closed end **22** and the open end **24**. The side wall **26** and the closed end **22** together form a hollow interior **28**. It is contemplated that the side wall **26** may be straight or contoured. For example, and as illustrated in FIG. **13**, FIG. **14** and FIG. **17**, the side wall **26** is outwardly bowed.

[0099] The double-walled structure **20** includes a stepped portion **29** formed on its inner surface **25**. The stepped portion **29** extends from the open end **24** into the hollow interior **28**, and in a direction towards the closed end **22**. According to an aspect, the stepped portion **29** has a first inner diameter, and a portion extending from the stepped portion **29** to the closed end has a second inner diameter. The first inner diameter of the stepped portion **29** is greater than the second inner diameter and the outer diameter of the body of the glass structure is less than the first inner diameter of the stepped portion **29**. According to an aspect, an internal thread **86***c* extends along a surface of the stepped portion **29**. The internal thread **86***c* may be configured for engaging corresponding threads **96** on a cover **90** (shown, e.g., in FIG. **14** and FIGS. **15**A-**15**B, and discussed further hereinbelow).

[0100] The glass structure **30** is configured for arrangement within the hollow interior **28** of the double-walled structure **20**. According to an aspect, the glass structure **30** includes a body **36** having an open upper end **37**, and a closed base end **34** spaced apart from the open upper end **37**. As illustrated in FIG. **16** and FIG. **17**, when the glass structure **30** is positioned within the hollow interior **28**, the body **36** of the glass structure **30** may be spaced apart from the inner surface **25** (and thus, the side wall **26**) of the double-walled structure **20**. In this configuration, a gap **99** is formed between the body **36** of the glass structure **30** and the inner surface **25** of the double-walled structure **20**.

[0101] In an embodiment and as illustrated in FIG. **14**, and FIGS. **16**-**17**, the glass structure **30** includes one or more recessed portions **139***a*, **139***b*. The body **36** may include a first recessed portion **139***a* extending inwardly (i.e., in a direction away from the inner surface **25** of the double-walled structure **20**) from a point on the body **36** (such as from the open upper end **37**) towards the closed based end **34**. A second recessed portion **139***b* may extend inwardly (i.e., in a direction away from the inner surface **25** of the double-walled structure **20**) from a point on the body (such as the closed base end **34**) towards the open upper end **37**. The second recessed portion **139***b* is spaced apart from the first recessed portion **139***a*. When the glass structure **30** is positioned within the hollow interior **28** of the double-walled structure **20**, the gap **99** may include enlarged gap areas **199***a*, **199***b* formed between at least the space between the first recessed portion **139***a* and the inner surface **25** of the double-walled structure **20**, and a space between the second recessed portion **139***b* and the inner surface **25** of the double-walled structure **20**.

[0102] According to an aspect and as illustrated in FIG. **14** and FIG. **17**, the exemplary insulated container **200** further includes a retainer/cup **100**. The retainer **100** may be positioned in the hollow interior **28** of the double-walled structure **20**. The retainer **100** according to the exemplary embodiment shown in FIG. **14** and FIG. **17** has an open cup-like structure but may take any configuration consistent with this disclosure.

[0103] FIG. **14** and FIG. **17** illustrate the retainer **100** including a bottom wall **102** and a side wall **104** extending upwardly from the bottom wall **102**. As shown in FIG. **17**, the glass structure **30** may be positioned within the retainer **100**, such that the closed base end **34** of the glass structure **30** is adjacent at least a portion of the bottom wall **102** of the retainer **100**. The retainer **100** may help to secure the glass structure **30** within the double walled structure **20**. According to an aspect, the retainer **100** may function as a guide to

ensure proper placement or positioning of the glass structure **30** within the double-walled structure **20**. As illustrated in FIG. **17**, when the glass structure **30** is positioned in the retainer **100**, and the retainer **100** is positioned in the double-walled structure **20**, the enlarged gap areas **199***a*, **199***b* may extend with a uniform width between the first recessed portion **139***a* of the glass structure **30** and the inner surface **25** of the double-walled structure **20**.

[0104] FIG. **17** illustrates, among other things, the closed base end **34** of the glass structure **30** being nested snugly within the retainer **100**. While the retainer **100** may be dimensioned to fit snugly around the second recessed portion **139***b* of the body **36** of the glass structure, it is contemplated that the height of the retainer **100** may be less than the height of the second recessed portion **139***b*. The retainer **100** may be dimension and formed from a material for frictionally retaining the second recessed portion **139***b* within a chamber **107** (bound by the side wall **104** and the closed based end **102**) of the retainer **100**. The second enlarged gap area **199***b* between the second recessed portion **139***b* and the inner surface **25** of the double-walled structure **20** may have a uniform width, and the side wall **104** of the retainer **100** may occupy all or a portion of the second enlarged gap area **199***b*. Compressive forces against the side wall **104** of the retainer **100** from and between each of the inner surface **25** of the double-walled structure **20** and the second recessed portion **139***b* of the glass structure body **36** may tighten and thereby enhance frictional engagement and retention between the side wall **104** and each of the inner surface **25** and the second recessed portion **139***b*.

[0105] According to an aspect of the exemplary embodiment illustrated in FIG. **14**, the retainer **100** includes a plurality of ridges **106** extending outwardly from the side wall **104** and the bottom wall **102** of the retainer **100**. In the exemplary embodiment, the ridges **106** are integrally formed with the retainer **100**. Each ridge **106** extends along an entire longitudinal length of the side wall **104** and continues radially inwardly along a portion of the bottom wall **102**. The compressive force and frictional engagement between the inner surface **25** of the double-walled structure **20** and the retainer **100** are against the ridges **106**. In other embodiments, the ridge(s) **106** may take any configuration and/or alternatively be any structure or feature consistent with this disclosure. For example, the ridge **106** may extend along all or any portion of the side wall **104** and/or the bottom wall **102** (or none of one or the other), be continuous or one or more discrete features arranged in any configuration, pattern, variation of shapes and sizes, etc., and be one or more integral features, and/or separate structures attached by melding, adhesive, insertion into receptacles on the retainer **100**, and the like. The retainer **100** (with or without the ridges **106**) may help maintain the closed end **34** of the glass structure **30** in a position at the closed end **22** of the double-walled structure **20**. The retainer **100** may be formed, without limitation, from a polymer and/or any material(s) that exhibit compressibility and frictional forces against the glass structure **30** and the inner surface **25** of the double-walled structure **20**, consistent with this disclosure. In an aspect, the retainer **100** may be formed from one or more materials that withstand shock and help prevent breaking of the glass structure **30** in the event of impacts, shaking, or other forces that may damage the glass structure **30**.

[0106] According to an aspect and as further illustrated in FIG. **14**, the insulated container **200** further includes a cover **90** for enclosing contents of the insulated container **200**. The cover **90** is shown in isolation in FIG. **15**A and FIG. **15**B. The cover **90** includes a sipping portion **92**, which may protrude from the open end **24** of the double-walled structure **20** (as seen, for example in FIG. **13** and FIG. **17**) and a skirt **94** positioned within the first enlarged gap area **199***a*. According to an aspect, the skirt **94** is detachably coupled to the inner surface **25** of the double-walled structure **20**, at a position within the first enlarged gap area **199***a*. The skirt **94** may be mechanically or frictionally secured to the inner surface **25** by any known techniques or components consistent with this disclosure.

[0107] According to an aspect and as illustrated in FIG. **14**, FIG. **15**A and FIG. **17**, the skirt **94** includes the outer thread **96** in the exemplary embodiment. The outer thread **96** may be configured for engagement with the internal thread **86***c* of the double-walled structure **20**. The outer thread **96** and the internal thread **86***c* may each include a continuous thread or a plurality of non-continuous/interrupted threads. When positioned in the hollow interior **28** of the double-walled structure **20**, the skirt **94** extends around the first recessed portion **139***a* of the glass structure **30**. It is contemplated that the skirt **94** may be dimensioned such that it fits within the first enlarged gap area **199***a* and is rotatable therein, for making the threaded connection to the double-walled structure **20**. Alternatively, and according to an aspect, the skirt **94** is dimensioned to fit within the first enlarged gap area **199***a* while frictionally engaging one or both of the first recessed area **139***a* of the glass structure **20** and the inner surface **25** of the double-walled structure **20**. The skirt **94** may include one or more features, components, or configurations for frictionally engaging one or both of the first recessed area **139***a* and the inner surface **25**.

[0108] FIG. **14**, FIG. **15**B and FIG. **17** each illustrate the cover **90** having a closed end wall **91**. The closed end wall **91** extends between the sipping portion **92** and the skirt **94** (FIG. **14** and FIG. **15**A) and is configured to close at least a portion of the open end **24** of the double-walled structure **20** and/or the open upper end **37** of the glass structure **30**. According to an aspect, the closed end wall **91** extends inwardly from the sipping portion **92**, and the skirt **94** extends downwardly from the closed end wall **91**.

[0109] As illustrated in FIG. **15**B, an opening **93** is formed through the closed end wall **91** of the cover **90**, to provide access to the contents of the insulated container **200**. A moveable element **95** may be secured to the closed end wall **91** and may be moveable between an open position and a closed position. According to an aspect, the moveable element **95** may slide along a track (not shown) formed in the closed end wall **91**, to reveal or open the opening **93** and provide access to the contents when in the open position or close the opening **93** to prevent access/avoid spilling the contents when in the closed position. As illustrated in FIGS. **13** and **17**, when the cover **90** is secured in place (i.e., in a covering relationship with the open end **24** of the double-walled structure **20** and the open upper end **37** of the glass structure **30**), and the moveable element **95** closes the opening **93**, the glass structure **30** and any contents positioned therein are enclosed within the hollow interior **28** of the double-walled structure **20**.

[0110] According to an aspect, an additional opening **97** may be formed through the closed end wall **91** of the cover. The additional opening **97** may be a vent port. The additional opening **97** is spaced apart from the opening **93**, such that

when moveable element **95** reveals the opening **93**, the additional opening **97** is closed. When the moveable element **95** closes the opening **93**, the additional opening **97** is open and the contents of the insulated container **200** is vented.

[0111] The insulated container **200** may include one or more flanges. Such flanges may be formed from plastic, silicone, rubber, or any type of material that provides sealing and shock absorption properties. As illustrated in FIG. **17**, for example, a first deformable flange **40***a* may be arranged between the sipping portion **92** and the skirt **94** of the cover **90**. In this configuration, the first deformable flange **40***a* engages the inner surface **25** adjacent the open end **24** of the double-walled structure **20**. The insulated container **200** may include a second deformable flange **40***b* arranged between the open upper end **37** of the body **36** of the glass structure **30** and the cover **90**. The second deformable flange **40***b* may help to seal contents of the glass structure, such as liquids, and may also help to prevent the glass structure **30** from breaking in the event of impact, shaking, forces, etc.

[0112] The present disclosure, in various embodiments, configurations and aspects, includes components, methods, processes, systems and/or apparatus substantially developed as depicted and described herein, including various embodiments, sub-combinations, and subsets thereof. Those of skill in the art will understand how to make and use the present disclosure after understanding the present disclosure. The present disclosure, in various embodiments, configurations and aspects, includes providing devices and processes in the absence of items not depicted and/or described herein or in various embodiments, configurations, or aspects hereof, including in the absence of such items as may have been used in previous devices or processes, e.g., for improving performance, achieving ease and/or reducing cost of implementation.

[0113] The phrases "at least one", "one or more", and "and/or" are open-ended expressions that are both conjunctive and disjunctive in operation. For example, each of the expressions "at least one of A, B and C", "at least one of A, B, or C", "one or more of A, B, and C", "one or more of A, B, or C" and "A, B, and/or C" means A alone, B alone, C alone, A and B together, A and C together, B and C together, or A, B and C together.

[0114] In this specification and the claims that follow, reference will be made to a number of terms that have the following meanings. The terms "a" (or "an") and "the" refer to one or more of that entity, thereby including plural referents unless the context clearly dictates otherwise. As such, the terms "a" (or "an"), "one or more" and "at least one" can be used interchangeably herein. Furthermore, references to "one embodiment", "some embodiments", "an embodiment" and the like are not intended to be interpreted as excluding the existence of additional embodiments that also incorporate the recited features. Approximating language, as used herein throughout the specification and claims, may be applied to modify any quantitative representation that could permissibly vary without resulting in a change in the basic function to which it is related. Accordingly, a value modified by a term such as "about" is not to be limited to the precise value specified. In some instances, the approximating language may correspond to the precision of an instrument for measuring the value. Terms such as "first," "second,""upper," "lower etc. are used to identify one element from another, and unless otherwise specified are not meant to refer to a particular order or number of elements.

[0115] As used herein, the terms "may" and "may be" indicate a possibility of an occurrence within a set of circumstances; a possession of a specified property, characteristic or function; and/or qualify another verb by expressing one or more of an ability, capability, or possibility associated with the qualified verb. Accordingly, usage of "may" and "may be" indicates that a modified term is apparently appropriate, capable, or suitable for an indicated capacity, function, or usage, while taking into account that in some circumstances the modified term may sometimes not be appropriate, capable, or suitable. For example, in some circumstances an event or capacity can be expected, while in other circumstances the event or capacity cannot occur—this distinction is captured by the terms "may" and "may be."

[0116] As used in the claims, the word "comprises" and its grammatical variants logically also subtend and include phrases of varying and differing extent such as for example, but not limited thereto, "consisting essentially of" and "consisting of" Where necessary, ranges have been supplied, and those ranges are inclusive of all sub-ranges therebetween. It is to be expected that variations in these ranges will suggest themselves to a practitioner having ordinary skill in the art and, where not already dedicated to the public, the appended claims should cover those variations.

[0117] The terms "determine", "calculate" and "compute," and variations thereof, as used herein, are used interchangeably and include any type of methodology, process, mathematical operation or technique.

[0118] The foregoing discussion of the present disclosure has been presented for purposes of illustration and description. The foregoing is not intended to limit the present disclosure to the form or forms disclosed herein. In the foregoing Detailed Description for example, various features of the present disclosure are grouped together in one or more embodiments, configurations, or aspects for the purpose of streamlining the disclosure. The features of the embodiments, configurations, or aspects of the present disclosure may be combined in alternate embodiments, configurations, or aspects other than those discussed above. This method of disclosure is not to be interpreted as reflecting an intention that the present disclosure requires more features than are expressly recited in each claim. Rather, as the following claims reflect, the claimed features lie in less than all features of a single foregoing disclosed embodiment, configuration, or aspect. Thus, the following claims are hereby incorporated into this Detailed Description, with each claim standing on its own as a separate embodiment of the present disclosure.

[0119] Advances in science and technology may make equivalents and substitutions possible that are not now contemplated by reason of the imprecision of language; these variations should be covered by the appended claims. This written description uses examples to disclose the method, machine and computer-readable medium, including the best mode, and also to enable any person of ordinary skill in the art to practice these, including making and using any devices or systems and performing any incorporated methods. The patentable scope thereof is defined by the claims, and may include other examples that occur to those of ordinary skill in the art. Such other examples are intended to

be within the scope of the claims if they have structural elements that do not differ from the literal language of the claims, or if they include equivalent structural elements with insubstantial differences from the literal language of the claims.

What is claimed is:

1. An insulated container comprising:

a double-walled structure comprising a closed end, an open end, and a side wall extending from the closed end to the open end, wherein the side wall and the closed end together form a hollow interior;

a glass structure arranged within the hollow interior, the glass structure comprising

a body having an open upper end and a closed base end spaced apart from the open upper end, and

a gap between the body of the glass structure and the side wall of the double-walled structure; and

a cover comprising a sipping portion and a skirt, wherein the sipping portion protrudes from the open end of the double-walled structure, and the skirt is removably positioned in the gap and detachably coupled to an inner surface of the double-walled structure.

2. The insulated container of claim **1**, wherein the glass structure further comprises:

a first recessed portion extending inwardly from a point on the body of the glass structure, and extending from the open upper end towards the closed based end,

wherein the skirt extends around the first recessed portion.

3. The insulated container of claim **1**, further comprising a retainer positioned in the hollow interior, wherein the retainer comprises:

a bottom wall;

a side wall extending from the bottom wall; and

a chamber bound by the bottom wall and the side wall,

wherein the glass structure is positioned within the chamber, and the closed base end of the glass structure is adjacent a portion of the bottom wall of the retainer.

4. The insulated container of claim **3**, wherein the retainer further comprises:

a ridge extending away from one of the side wall and the bottom wall of the retainer.

5. The insulated container of claim **3**, wherein the glass structure further comprises:

a first recessed portion extending inwardly from a point on the body of the glass structure, and extending from the open upper end towards the closed based end; and

a second recessed portion extending inwardly from another point on the body of the glass structure, and extending from the closed base end towards the open upper end, the second recessed portion being spaced apart from the first recessed portion, wherein

the skirt of the cover extends around the first recessed portion, and

the side wall extends around the second recessed portion.

6. The insulated container of claim **1**, wherein the skirt is mechanically or frictionally secured to an internal surface of the double-walled structure.

7. The insulated container of claim **1**, wherein the double-walled structure further comprises:

a stepped portion formed in the inner surface of the double-walled structure, the stepped portion extending partially from the open end into the hollow interior; and

an internal thread extending along the stepped portion,

wherein the skirt of the cover comprises an outer thread engaged with the internal thread of the double-walled structure.

8. The insulated container of claim **1**, further comprising at least one of:

a first deformable flange extending between the sipping portion and the skirt of the cover; and

a second deformable flange extending between the open upper end of the body of the glass structure and the cover.

9. The insulated container of claim **1**, wherein the cover further comprises:

a closed end wall extending between the sipping portion and the skirt; and

a moveable element secured to the closed end wall,

wherein the moveable element is moveable between an open position and a closed position.

10. An insulated container comprising:

a double-walled structure comprising a closed end and an open end, and a side wall extending between the closed and open ends, wherein the side wall and the closed end together form a hollow interior;

a glass structure arranged within the hollow interior, the glass structure comprising

a body having an open upper end and a base end, and

a sipping portion extending from the upper end, the sipping portion comprising a sipping end and a shoulder end spaced apart from the sipping end,

wherein the sipping portion protrudes from the open end of the double-walled structure; and

a collar comprising a first skirt, a second skirt, and an end wall extending between the first skirt and the second skirt,

wherein the end wall covers the sipping end and forms a sipping surface, the first skirt is threadingly secured to an external surface of the double-walled structure, and the second skirt extends into an interior of the glass structure.

11. The insulated container of claim **10**, wherein the second skirt comprises a thread formed on an internal surface of the second skirt and in engagement with a corresponding thread formed on an inner surface of the glass structure.

12. The insulated container of claim **10**, further comprising:

a gasket secured between the glass structure and the double-walled structure, wherein the gasket is adjacent the shoulder portion of the glass structure.

13. The insulated container of claim **12**, further comprising:

a deformable flange extending around the body of the glass structure, adjacent the gasket, wherein the deformable flange comprises a plurality of protrusions engaged with an inner surface of the double-walled structure.

14. The insulated container of claim **10**, wherein

the sipping end of the glass container has an outer diameter,

the shoulder end of the glass container has an outer diameter, and

the body of the glass container has an outer diameter, wherein

the outer diameter of the sipping end and the outer diameter of the shoulder end are greater than at least

one of the outer diameter of the body, and an inner diameter of the double-walled structure.

15. The insulated container of claim **14**, wherein the double-walled structure comprises:

a stepped portion formed in the inner surface of the double-walled structure, the stepped portion extending partially from the open end towards the closed end, wherein

the stepped portion has a first inner diameter and a second inner diameter, and

the first inner diameter is greater than the second inner diameter and the outer diameter of the body of the glass structure is less than each of the first inner diameter and the second inner diameter of the stepped portion.

16. An insulated container comprising:

a double-walled structure comprising a closed end, an open end, and a side wall extending between the closed and open ends, wherein the side wall and the closed end together form a hollow interior;

a glass structure arranged within the hollow interior, the glass structure comprising

a body having an open upper end and a base end, and

a sipping portion extending from the upper end, the sipping portion comprising a sipping end and a shoulder end spaced apart from the sipping end,

wherein the sipping portion protrudes from the open end of the double-walled structure; and

a collar positioned over the sipping portion of the glass structure, wherein the collar comprises

an end wall extending over the sipping end, and an elongated first skirt extending from the end wall to an external surface of the side wall of the double-walled structure,

wherein the elongated first skirt includes a thread formed in an inner surface of the elongated first skirt and the external surface of the double-walled structure includes a corresponding thread formed on the external surface.

17. The insulated container of claim **16**, further comprising:

a deformable flange extending around the body of the glass structure adjacent the upper end of the body of the glass structure,

wherein the deformable flange comprises a protrusion engaged with an inner surface of the double-walled structure.

18. The insulated container of claim **17**, wherein the deformable flange comprises:

a main body, wherein

the protrusion radially extends from an outer surface of the main body and is frictionally engaged with the inner surface of the double-walled structure.

19. The insulated container of claim **17**, wherein

the sipping end of the glass container has an outer diameter,

the shoulder end of the glass container has an outer diameter, and

the body of the glass container has an outer diameter, wherein

the outer diameter of the sipping end and the outer diameter of the shoulder end are greater than at least one of the outer diameter of the body, and an inner diameter of the double-walled structure.

20. The insulated container of claim **19**, wherein the double-walled structure further comprises:

a stepped portion formed in the inner surface of the double-walled structure, the stepped portion extending partially from the open end towards the closed end, wherein

the stepped portion has a first inner diameter and a second inner diameter, and

the first inner diameter is greater than the second inner diameter and the outer diameter of the body of the glass structure is less than each of the first inner diameter and the second inner diameter of the stepped portion.

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