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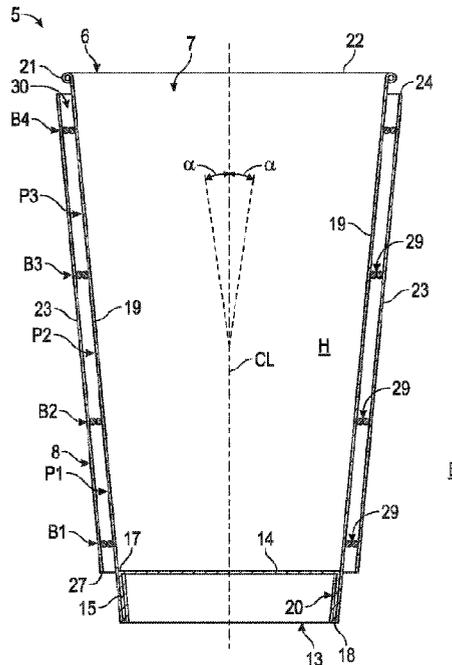
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(57) **Abrégé/Abstract:**

A container for containing a cold fluid. The container includes a sidewall construct that includes an inner sidewall extending at least partially around an interior of the container, an outer sleeve attached to the inner sidewall, and a cavity defined between the inner sidewall and the outer sleeve. The container also includes a closed bottom defining a bottom of the interior of the container, and insulating features that include the cavity and a plurality of annular bands, each annular band of the plurality of annular bands includes a spacer that extends in the cavity from the inner sidewall to the outer sleeve. Adjacent bands define a respective pocket of a plurality of pockets in the cavity such that the insulating features maintain a desired temperature of the cold fluid.

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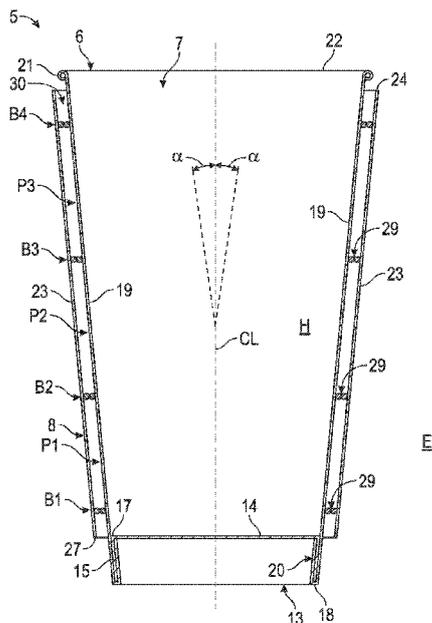


FIG. 2

(57) Abstract: A container for containing a cold fluid. The container includes a sidewall construct that includes an inner sidewall extending at least partially around an interior of the container, an outer sleeve attached to the inner sidewall, and a cavity defined between the inner sidewall and the outer sleeve. The container also includes a closed bottom defining a bottom of the interior of the container, and insulating features that include the cavity and a plurality of annular bands, each annular band of the plurality of annular bands includes a spacer that extends in the cavity from the inner sidewall to the outer sleeve. Adjacent bands define a respective pocket of a plurality of pockets in the cavity such that the insulating features maintain a desired temperature of the cold fluid.



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## CONTAINER WITH INSULATING FEATURES

[0001] Continue to [0002].

[0002] Continue to [0003].

### BACKGROUND OF THE DISCLOSURE

[0003] The present disclosure generally relates to containers for containing fluid, for example, beverage containers. In one embodiment, the present disclosure relates to a container formed from a sidewall and having insulating features sufficient to maintain a desired temperature of a cool, cold, and/or at least partially frozen beverage, and/or one or more surface conditions of the container.

### SUMMARY OF THE DISCLOSURE

[0004] According to one aspect of the disclosure, a container for containing a cold fluid comprises a sidewall construct comprising an inner sidewall extending at least partially around an interior of the container, an outer sleeve attached to the inner sidewall, and a cavity defined between the inner sidewall and the outer sleeve. The container further comprises a closed bottom defining a bottom of the interior of the container. The container further comprises insulating features comprising the cavity and a plurality of annular bands, each annular band of the plurality of annular bands comprises a spacer that extends in the cavity from the inner sidewall to the outer sleeve. Adjacent bands define a respective pocket of a plurality of pockets in the cavity such that the insulating features maintain a desired temperature of the cold fluid.

[0005] According to another aspect of the disclosure, a sidewall construct for forming a fluid container for containing a cold fluid comprises an inner sidewall extending at least partially around an interior of the container, an outer sleeve attached to the inner sidewall, a cavity defined between the inner sidewall and the outer sleeve, and insulating features comprising the cavity and a plurality of annular bands. Each band of the plurality of annular bands comprises a spacer that extends in the

cavity from the inner sidewall to the outer sleeve, and adjacent bands define a respective pocket of a plurality of pockets in the cavity for maintaining a desired temperature of the cold fluid.

**[0006]** According to another aspect of the disclosure, a method of forming a container for containing a cold fluid comprises obtaining an inner sidewall and an outer sleeve, and attaching the outer sleeve to the inner sidewall to form a sidewall construct with a cavity defined between the inner sidewall and the outer sleeve. The attaching comprises forming insulating features in the sidewall construct, the insulating features comprise the cavity and a plurality of annular bands, each annular band of the plurality of annular bands comprises a spacer that extends in the cavity from the inner sidewall to the outer sleeve, adjacent bands define a respective pocket of a plurality of pockets in the cavity for maintaining a desired temperature of the cold fluid. The method further comprises forming an interior of the container by positioning the sidewall construct so that the inner sidewall extends at least partially around the interior. The method further comprises positioning a closed bottom relative to the sidewall construct.

**[0007]** According to common practice, the various features of the drawings discussed below are not necessarily drawn to scale. Dimensions of various features and elements in the drawings may be expanded or reduced to more clearly illustrate the embodiments of the disclosure.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

**[0008]** Fig. 1 is a perspective view of a container according to a first exemplary embodiment of the disclosure.

**[0009]** Fig. 2 is cross-sectional view of the container of Fig. 1.

**[0010]** Fig. 3 is a front view of the container of Fig. 1 with an outer sleeve removed.

**[0011]** Fig. 4 is a schematic cross-sectional view of a portion of a sidewall construct of the container of Fig. 1.

**[0012]** Fig. 5 is a perspective view of a container according to a second exemplary embodiment of the disclosure.

**[0013]** Fig. 6 is a cross-sectional view of the container of Fig. 5.

**[0014]** Fig. 7A is a schematic cross-sectional view of a pair of containers, each as shown in Fig. 1, in a nested arrangement.

[0015] Fig. 7B is a schematic cross-sectional view of a pair of containers, each as shown in Fig. 6, in a nested arrangement.

[0016] Corresponding parts are designated by corresponding reference numbers throughout the drawings.

#### **DETAILED DESCRIPTION OF THE EXEMPLARY EMBODIMENTS**

[0017] Containers according to the present disclosure can accommodate fluids, e.g., liquid or semi-liquid beverages that can include one or more solid components, of different sizes and compositions. For the purpose of illustration and not for the purpose of limiting the scope of the disclosure, the following detailed description describes a container for cool, cold, and/or at least partially frozen beverages, e.g., iced coffee, cold brew coffee, blended ice beverages (such as smoothies, slush beverages, milkshakes, etc.), iced tea, lemonade, and other flavored or unflavored beverages, to name a few. It will be understood that the containers described herein can hold different types of beverages and/or products containing one or more food items without departing from the disclosure.

[0018] In this specification, the terms “lower,” “bottom,” “upper,” and “top” indicate orientations determined in relation to fully erected and upright containers. As described herein, containers can be formed from blanks by overlapping multiple portions, panels, and/or end flaps. Such portions, panels, and/or end flaps may be designated herein in terms relative to one another, e.g., “first”, “second”, “third”, etc., in sequential or non-sequential reference, without departing from the disclosure.

[0019] Fig. 1 is a perspective view, and Fig. 2 is a cross-sectional view, of a container 5 according to a first exemplary embodiment of the disclosure. In one embodiment, the container 5 is a cup having the general shape of a truncated cone with an open top 6, a closed bottom 13, and a sidewall construct 8 extending from a bottom edge to a top edge of the container 5. The closed bottom 13 and sidewall construct 8 define and extend at least partially around an interior space 7 (Fig. 2) of the container 5 with an interior volume that is for holding fluid such as a cool, cold, or at least partially frozen beverage.

[0020] In the illustrated embodiment, the sidewall construct 8 comprises an annular inner sidewall 19 (broadly, “inner wall”) and an outer sleeve 23 (broadly, “outer wall”) attached to the inner sidewall 19 such that the sidewall construct 8 can be referred to as a double wall structure. In one embodiment, one or both of the inner sidewall 19 and the sleeve 23 can be formed of paperboard, having one or more surface provided with, for example, a thermoplastic coating. Such paperboard can be provided with one or more desired surface features, for example, ribs or ridges, such as in

fluted or corrugated paperboard. In one embodiment, the inner sidewall 19 can have a thickness of at least about 12 mil and the sleeve 23 can have a thickness of at least about 1 mil.

**[0021]** With additional reference to Figs. 3 and 4, the container 5 includes insulating features in the sidewall construct 8 that include bands B1, B2, B3, B4 of spacers 29 that are circumferentially disposed at different vertical heights along the sidewall construct 8. The spacers 29 can be at least partially comprised of adhesive, such as a hot melt glue or other glue, and extend from the inner sidewall 19 to the outer sleeve 23 to adhesively attach the outer sleeve 23 to the inner sidewall 19. In one embodiment, the spacers 29 can be formed from a different polymeric material. In this regard, in one embodiment, the adhesive that forms the spacers 29 can be set or cured to provide desired properties of the spacers 29. As discussed further below, the insulating features of the container 5 are arranged so that an insulation profile of the container 5 can be enhanced, for example, so that a selected or desired temperature or temperature range of the fluid in the container 5 is maintained, e.g., such that a rate of temperature increase toward an equilibrium temperature is within a selected or desired threshold, and/or so that one or more outer surface conditions of the container 5 can be maintained.

**[0022]** In one embodiment, the insulating features of the container 5 are arranged such that a relatively low temperature, e.g., a temperature at or below about approximately 40°F (or any suitable temperature for a cold beverage) of a cool, cold, and/or at least partially frozen fluid in the interior space 7 of the container 5 can be maintained, and such that the transfer of heat to the cool, cold, and/or at least partially frozen fluid in the interior space 7 from a surrounding environment E and/or a customer's hands can be substantially minimized, inhibited, and/or prevented. The insulating features of the container 5 additionally can maintain one or more surface conditions of the exterior surface of the sleeve 23 and/or exposed portions of the inner sidewall 19, for example, a surface temperature above the dew point of the surrounding environment such that condensation is minimized, inhibited, and/or prevented from forming on the container 5. In one embodiment, such condition can be maintained for up to and including about an hour or more. In this regard, a user can be provided with a more comfortable surface to grasp the container 5, e.g., such that the exterior surface of the outer sleeve 23 does not present or minimizes any cold temperature regions or zones that are uncomfortable to a customer's touch and/or a wet or slippery texture due to condensation. The container 5 can be provided with a different arrangement of insulating features without departing from the disclosure.

**[0023]** As shown, the bottom 13 of the container 5 includes a generally circular bottom panel 14 and an annular leg 15 downwardly-depending from the bottom panel 14 at a generally circular line of weakening 17. The bottom panel 14 has a diameter that generally corresponds to a horizontal

distance between opposing sides of the inner sidewall 19. The inner sidewall 19 extends upwardly from the closed bottom 13 to define the interior space 7 of the container 5. The annular leg 15 is adhesively attached to a lower edge margin 20 of the inner sidewall 19 to secure the bottom 13 to the sidewall construct 8 and to form the bottom of the interior space 7 of the container 5. As shown, the lower edge margin 20 of the inner sidewall 19 extends along the outer surface of the annular leg 15, wraps under a lower edge thereof, and extends upwardly along the interior surface of the annular leg 15 toward the bottom panel 14. The lower edge margin 20 of the inner sidewall 19 can be at least partially flexible portion of the inner sidewall 19 configured to engage the annular leg 15, and can include surface features to facilitate such engagement, for example, an adhesive treatment and/or frictionally-enhancing patterning. As described herein, the portion of the lower edge margin 20 of the inner sidewall 19 overlying the lower edge of the annular leg 15 will define an inner bottom edge or inner lower edge 18 of the inner sidewall 19. In one embodiment, the lower edge of the annular leg 15 can define the lower edge of the coupled inner sidewall 19 and the bottom 13.

**[0024]** The bottom 13 can be secured to the sidewall construct 8 in a different configuration without departing from the disclosure. For example, in one embodiment, the bottom 13 can be inserted into the interior space 7 formed by the sidewall construct 8 and coupled thereto, e.g., in the manner described above. In another embodiment, the bottom 13 and the annular leg 15 of the container 5 can be integrally formed with the inner sidewall 19 or can be otherwise attached to a portion of the inner sidewall 19 by other attachment means. In still another embodiment, the bottom 13 can be coupled to the inner sidewall 19 as described above, and the coupled inner sidewall 19/bottom 13 can be inserted into or otherwise coupled with the sleeve 23, e.g., via the spacers 29. In yet another embodiment, the sidewall construct 8 can be formed in a flat configuration, and then wrapped around and coupled to the bottom 13 in the manner described above.

**[0025]** As also shown, a top edge of the inner sidewall 19 is curved, curled, or otherwise flanged to define a top or upper rim 21 of the container 5 that circumscribes an opening 22 in communication with the interior space 7 of the container 5. The rim 21 and/or an upper portion of the container 5 can be configured to engage a lid or other top closure structure.

**[0026]** The illustrated configuration of the truncated conical shape of the container 5 can be achieved by forming the inner sidewall 19 from a flat blank by folding around a mandrel such that an overlapping seam is provided. The inner sidewall 19 (and the sleeve 23 disposed therearound), as shown, have a tapered configuration such that the inner sidewall 19 and the sleeve 23 extend at an angle  $\alpha$  relative to a vertical centerline CL of the container 5.

**[0027]** Still referring to Figs. 1-4, the outer sleeve or sleeve 23, e.g., a wrap or other layer, is disposed in at least partial circumferential engagement with the inner sidewall 19 such that the sleeve 23 presents an outer surface of the container 5 for engagement by a user. As shown, the sleeve 23 includes an upper edge 24 proximate the rim 21 and the sleeve 23 protrudes downwardly such that an outer bottom edge or outer lower edge 27 of the sleeve 23 is spaced above the lower edge 18 of the inner sidewall 19. In one embodiment, the lower edge 27 of the sleeve 23 is spaced above the lower edge 18 of the inner sidewall 19 by approximately the vertical length of the lower edge margin 20 such that the lower edge 27 of the sleeve 23 is substantially level with the bottom panel 14 of the bottom 13 of the container 5. In one embodiment, the lower edge 27 of the sleeve 23 can be approximately level with the lower edge 18 of the inner sidewall 19.

**[0028]** As described herein, at least the interface between the sleeve 23 and the inner sidewall 19 of the container 5 forms insulating features of the container 5 that include a cavity 30 defined between the inner wall 19 and the outer sleeve 23. In one embodiment, the insulating features of the container 5 can also include one or more portions of the inner sidewall 19 and/or the sleeve 23. Alternative insulating features are further described in U.S. Provisional Patent Application No. 62/657,246, filed on April 13, 2018, and U.S. Provisional Patent Application No. 62/674,834, filed on May 22, 2018.

**[0029]** Fig. 3 is a front view of the container 5 with the sleeve 23 removed such that the inner sidewall 19 is visible. As shown, a plurality of annular bands B1, B2, B3, B4 of adhesive are applied between the inner sidewall 19 and the outer sleeve 23 to attach the outer sleeve 23 to the inner sidewall 19 and to form the spacers 29. In one embodiment, the annular bands B1, B2, B3, B4 are each a continuous pattern of adhesive to form respective continuous spacers 29. As shown in Fig. 4, the bands B1, B2, B3, B4 can each be comprised of two respective layers of adhesive L1, L2, L3, L4 and LS, L6, L7, L8 to form the spacers 29. As described above, the adhesive that forms the spacers 29 can be set or cured to provide desired properties of the spacers 29. In one embodiment, a respective first layer L1, L2, L3, L4 of adhesive can be applied to the outer surface of the sidewall construct 8 or to the interior surface of the sleeve 23, allowed to at least partially set or cure, and a respective second layer LS, L6, L7, L8 of adhesive can be applied thereon. In another embodiment, a single layer of adhesive can be applied at a desired thickness to form one or more of the bands B1, B2, B3, B4.

**[0030]** As described further below, one or more of the bands B1, B2, B3, B4 can be a continuous band of adhesive arranged between the inner sidewall 19 and the outer sleeve 23 such that an at least partial seal is provided, e.g., to minimize, inhibit, and/or prevent the passage of fluid thereby. In one embodiment, one or more of the bands B1 through B4 can have one or more discontinuities

therealong, for example, to provide ventilation paths among the bands B1, B2, B3, B4 and/or an external environment E. It will be understood that a different numbers of bands of spacers 29 can be present without departing from the disclosure. In one embodiment, surface features such as bands, ridges, protrusions, etc., can be provided in at least partial circumferential engagement around the inner sidewall 19, and can provide a surface or substrate upon which the bands of adhesive that form the spacers 29 can applied. Such surface features can provide an optimal surface for the adhesive interface between the inner sidewall 19 and the sleeve 23.

**[0031]** As shown in Figs. 2 and 4, a pocket P1 is defined in the cavity 30 between the inner sidewall 19 and the sleeve 23 between the band B1 and the band B2, a pocket P2 is defined in the cavity 30 between the inner sidewall 19 and the sleeve 23 between the band B2 and the band B3, and a pocket P3 is defined in the cavity 30 between the inner sidewall 19 and the sleeve 23 between the band B3 and the band B4. At least the pockets P1, P2, P3 provide insulating spaces or gaps between the inner sidewall 19 and the sleeve 23. As described, one or more of the pockets P1, P2, P3 can be a region in which fluid is at least partially held or sealed by the arrangement of the inner sidewall 19, the outer sleeve 23, and the respective bands B1, B2, B3, B4. In one embodiment, each pocket P1, P2, P3 can have a width W measured from the inner sidewall 19 to the sleeve 23 and at least partially determined by the size of the spacers 29, for example, between about 60 mils and about 120 mils, for example, about 60 mils, about 70 mils, about 80 mils, about 90 mils, about 100 mils, about 110 mils, about 120 mils, etc. or integer or non-integer numbers therebetween. In one embodiment, the width W can be about 80 mils. It will be understood the width W of the spacers 29 can be a different dimension without departing from the disclosure. The width W of the spacers 29 defines the relative spacing of the cavity 30 such that the pockets P1, P2, P3 can be configured as air gaps between the interior space 7 of the container 5 and an external environment E.

**[0032]** Such insulating features can resist a temperature change of fluid in the container 5 by resisting the transfer of heat from the external environment E surrounding the container 5 to the cavity 30, and further to a fluid in the interior space 7 of the container 5. In one embodiment, heat from the surrounding environment E can be at least partially transferred to air or other fluid that is trapped or otherwise maintained in one or more of the pockets P1, P2, P3 between the respective bands B1, B2, B3, B4 of spacers 29. The pockets P1, P2, P3 thus provide an additional buffer, e.g., a heat sink, between the interior space 7 of the container 5 and the surrounding environment E, in addition to the inner sidewall 19 and the outer sleeve 23. In addition to maintaining a temperature of a fluid in the interior space 7 of the container 5, such insulation provided by the arrangement of the spacers 29 can also maintain a desired surface temperature of the sleeve 23 to facilitate comfortable grasping by a customer and/or maintain one or more desired surface conditions of the sleeve 23, e.g.,

to minimize, inhibit, and/or prevent condensation as described above. Further still, the arrangement of the bands B1, B2, B3, B4 of spacers 29 can impart desired structural properties to the container 5, for example, by providing a desired pattern of rigidity such that an optimal pattern of flexion is provided to the container 5 during use. For example, upon grasping of the sidewall construct 8 by a customer, portions of the sleeve 23/inner sidewall 19 can bend or flex inwardly into one or more of the pockets P1, P2, P3 to provide a textured or irregular surface configuration to enhance the customer's grip on the container 5.

**[0033]** Referring additionally to Figs. 5 and 6, a container 105 is illustrated according to a second exemplary embodiment of the disclosure. It will be understood that the container 105 can be a modification of the container 5 of the first exemplary embodiment of the disclosure. One or more portions of the container 105 are substantially similar to that of the container 5 of the first exemplary embodiment of the disclosure, and like or similar reference numbers will refer to such like or similar elements.

**[0034]** As shown, the container 105 includes the sidewall construct 108, which includes the inner sidewall 19 and an outer sleeve 123. Insulating features are disposed between the inner sidewall 19 and the outer sleeve 123 of the container 105 as described above with respect to the container 5. For example, and as shown, bands B1, B2, B3, B4 of spacers 29 can be disposed between the inner sidewall 19 and the outer sleeve 23, and define the respective pockets P1, P2, P3 therebetween.

**[0035]** The outer sleeve 23 extends downwardly past the lower edge 18 of the inner sidewall 19 to form an annular base 125 of the container 105 such that a lower portion of the outer sleeve 23 defines an interior annular recess 126 between the lower edge 127 of the annular base 125/container 105 and a bottom panel 114.

**[0036]** A lower edge margin 128 of the sleeve 23, as shown, is interiorly folded into the annular recess 125 into face-to-face contact with a lower portion of the outer sleeve 123/annular base 125 to define the lower edge 127 and to provide a two-ply structure at a bottom portion of the annular base 125 upon which the container 105 can rest in an upright orientation.

**[0037]** As also shown, the closed bottom 113, including the bottom panel 114 and an annular leg 115 foldably connected thereto at a line of weakening 117, are positioned a vertical distance above the lower edge 127 of the container 105, and an annular discontinuity or annular gap G is defined between the lower edge 18 of the inner sidewall 19 and an upper edge U of the lower edge margin 128 of the sleeve 23. In one embodiment, the annular gap G can provide a vent for one or more portions of the cavity 30.

[0038] In one embodiment, the inner sidewall 19 and the sleeve 123, with insulating features therebetween, can be separately formed from the closed bottom 113, and so that the bottom 113 can be coupled to the sidewall construct 8 to form the container 105. In this regard, the sidewall 108 can be produced as a structure that receives the bottom 113 so that the bottom 113 can be selectively coupled at different locations of the sidewall 8 to provide an interior space of the container 105 with a different selected interior volume. Such features are described in U.S. Provisional Patent Application No. 62/674,834, filed on May 22, 2018.

[0039] With additional reference to Figs. 7A, 7B, the angle  $a$  of the sidewall construct 8 can be selected such that the lower edge 27, 127 of a respective upper container 5, 105 engages the respective bottom panel 14, 114 of a respective lower receiving container 5, 105 prior to substantial frictional engagement of the sidewall constructs 8 of the respective containers 5, 105 e.g., so that respective containers 5, 105 can be easily separated or otherwise de-nested from one another. In one embodiment, the container 5 can include surface features to facilitate separation or de-nesting, for example, embossed and/or recessed surfaces. Such an arrangement of the containers 5, 105 can provide significant space savings for transport and/or storage of the containers 5, 105.

[0040] The containers and/or the blanks that form the containers according to the present disclosure can be, for example, formed from coated paperboard and similar materials. For example, the interior and/or exterior sides of the blanks can be coated with a clay coating. The clay coating may then be printed over with product, advertising, price coding, and other information or images. The blanks may then be coated with a varnish to protect any information printed on the blank. The blanks may also be coated with, for example, a moisture barrier layer, on either or both sides of the blank. In accordance with the above-described embodiments, the blanks may be constructed of paperboard of a caliper such that it is heavier and more rigid than ordinary paper. The blanks can also be constructed of other materials, such as cardboard, hard paper, or any other material having properties suitable for enabling the container to function at least generally as described herein. The blanks can also be laminated or coated with one or more sheet-like materials at selected panels or panel sections.

[0041] In accordance with the above-described embodiments of the present disclosure, a fold line can be any substantially linear, although not necessarily straight, form of weakening that facilitates folding there along. More specifically, but not for the purpose of narrowing the scope of the present disclosure, fold lines include: a score line, such as lines formed with a blunt scoring knife, or the like, which creates a crushed portion in the material along the desired line of weakness; a cut that extends partially into a material along the desired line of weakness, and/or a series of cuts that extend

partially into and/or completely through the material along the desired line of weakness; and various combinations of these features.

**[0042]** The above embodiments may be described as having one or more portions adhered together by glue during erection of the container embodiments. The term “glue” is intended to encompass all manner of adhesives commonly used to secure containers in place.

**[0043]** The foregoing description of the disclosure illustrates and describes various exemplary embodiments. Various additions, modifications, changes, etc., could be made to the exemplary embodiments without departing from the spirit and scope of the disclosure. It is intended that all matter contained in the above description or shown in the accompanying drawings shall be interpreted as illustrative and not in a limiting sense. Additionally, the disclosure shows and describes only selected embodiments of the disclosure, but the disclosure is capable of use in various other combinations, modifications, and environments and is capable of changes or modifications within the scope of the inventive concept as expressed herein, commensurate with the above teachings, and/or within the skill or knowledge of the relevant art. Furthermore, certain features and characteristics of each embodiment may be selectively interchanged and applied to other illustrated and non-illustrated embodiments of the disclosure.

What is claimed is:

1. A container for containing a cold fluid, comprising:

a sidewall construct comprising an inner sidewall extending at least partially around an interior of the container, an outer sleeve attached to the inner sidewall, and a cavity defined between the inner sidewall and the outer sleeve; and

a closed bottom defining a bottom of the interior of the container,

the container comprises insulating features comprising the cavity and a plurality of annular bands, each annular band of the plurality of annular bands comprises a spacer that extends annularly in the cavity from the inner sidewall to the outer sleeve, the spacer having a width between about 60 mils and about 120 mils, and

adjacent annular bands of the plurality of annular bands define a respective sealed pocket of a plurality of sealed pockets in the cavity circumscribing the inner sidewall such that the insulating features maintain a desired temperature of the cold fluid,

the spacer comprises a first layer of material adjacent to a second layer of material.

2. The container of claim 1, wherein the plurality of sealed pockets provide a respective plurality of insulating spaces between the inner sidewall and the outer sleeve.

3. The container of claim 1, wherein the first layer of material and the second layer of material are comprised of adhesive.

4. The container of claim 1, wherein the spacer has a width of about 80 mils.

5. The container of claim 1, wherein the spacer comprises a substantially continuous length of material that circumscribes the inner sidewall.

6. The container of claim 1, wherein the spacer comprises a polymeric material.

7. The container of claim 6, wherein the polymeric material is an adhesive that adheres the outer sleeve to the inner sidewall.

8. The container of claim 1, wherein the closed bottom is spaced above a lower edge of the outer sleeve such that a lower portion of the outer sleeve defines an annular recess below the closed bottom.

9. The container of claim 8, wherein the closed bottom comprises a bottom panel and an annular leg extending downwardly from the bottom panel and attached to the inner sidewall, the annular leg is spaced above the lower edge of the outer sleeve.

10. The container of claim 9, wherein a portion of the outer sleeve defines a lower edge margin that is folded into the annular recess and into at least partial face-to-face contact with the lower portion of the outer sleeve.

11. The container of claim 10, wherein the lower edge of the inner sidewall is spaced above an upper edge of the lower edge margin of the outer sleeve such that a gap is defined therebetween.

12. The container of claim 11, wherein the gap provides a vent for the cavity.

13. The container of claim 1, wherein an upper portion of the inner sidewall defines a flanged rim, the rim is configured to interengage a container closure.

14. A sidewall construct for forming a fluid container for containing a cold fluid, the sidewall construct comprising:

an inner sidewall extending at least partially around an interior of the container;

an outer sleeve attached to the inner sidewall;

a cavity defined between the inner sidewall and the outer sleeve; and

insulating features comprising the cavity and a plurality of annular bands, each band of the plurality of annular bands comprises a spacer that extends annularly in the cavity from the inner sidewall to the outer sleeve, the spacer having a width between about 60 mils and about 120 mils, and

adjacent annular bands of the plurality of annular bands define a respective sealed pocket of a plurality of sealed pockets in the cavity circumscribing the inner sidewall for maintaining a desired temperature of the cold fluid,

the spacer comprises a first layer of material adjacent to a second layer of material.

15. The sidewall construct of claim 14, wherein the plurality of sealed pockets provide a respective plurality of insulating spaces between the inner sidewall and the outer sleeve.

16. The sidewall construct of claim 14, wherein the first layer of material and the second layer of material are comprised of adhesive.

17. The sidewall construct of claim 14, wherein the spacer has a width of about 80 mils.

18. The sidewall construct of claim 17, wherein the spacer comprises a substantially continuous length of material that circumscribes the inner sidewall.

19. The sidewall construct of claim 14, wherein the spacer comprises a polymeric material.

20. The sidewall construct of claim 19, wherein the polymeric material is an adhesive that adheres the outer sleeve to the inner sidewall.

21. The sidewall construct of claim 14, wherein an upper portion of the inner sidewall defines a flanged rim, the rim is configured to interengage a container closure.

22. A method of forming a container for containing a cold fluid, comprising;

obtaining an inner sidewall and an outer sleeve;

attaching the outer sleeve to the inner sidewall to form a sidewall construct with a cavity defined between the inner sidewall and the outer sleeve, the attaching comprises forming insulating features in the sidewall construct, the insulating features comprise the cavity and a plurality of annular bands, each annular band of the plurality of annular bands comprises a spacer that extends annularly in the cavity from the inner sidewall to the outer sleeve, the spacer having a width between about 60 mils and about 120 mils, adjacent annular bands of the plurality of annular bands

defining a respective sealed pocket of a plurality of sealed pockets in the cavity circumscribing the inner sidewall for maintaining a desired temperature of the cold fluid;

forming an interior of the container by positioning the sidewall construct so that the inner sidewall extends at least partially around the interior; and

positioning a closed bottom relative to the sidewall construct,

the spacer comprises a first layer of material applied to a second layer of material.

23. The method of claim 22, wherein the plurality of sealed pockets provide a respective plurality of insulating spaces between the inner sidewall and the outer sleeve.

24. The method of claim 22, wherein the first layer of material and the second layer of material are comprised of adhesive.

25. The method of claim 22, wherein the spacer has a width of about 80 mils.

26. The method of claim 22, wherein the spacer comprises a substantially continuous length of material that circumscribes the inner sidewall.

27. The method of claim 22, wherein the spacer comprises a polymeric material.

28. The method of claim 27, wherein the polymeric material is an adhesive that adheres the outer sleeve to the inner sidewall.

29. The method of claim 22, wherein the closed bottom is spaced above a lower edge of the outer sleeve such that a lower portion of the outer sleeve defines an annular recess below the closed bottom.

30. The method of claim 29, wherein the closed bottom comprises a bottom panel and an annular leg extending downwardly from the bottom panel and attached to the inner sidewall, the annular leg is spaced above the lower edge of the outer sleeve.

31. The method of claim 30, wherein a portion of the outer sleeve defines a lower edge margin that is folded into the annular recess and into at least partial face-to-face contact with the lower portion of the outer sleeve.
32. The method of claim 31, wherein the lower edge of the inner sidewall is spaced above an upper edge of the lower edge margin of the outer sleeve such that a gap is defined therebetween.
33. The method of claim 32, wherein the gap provides a vent for the cavity.
34. The method of claim 22, wherein an upper portion of the inner sidewall defines a flanged rim, the rim is configured to interengage a container closure.

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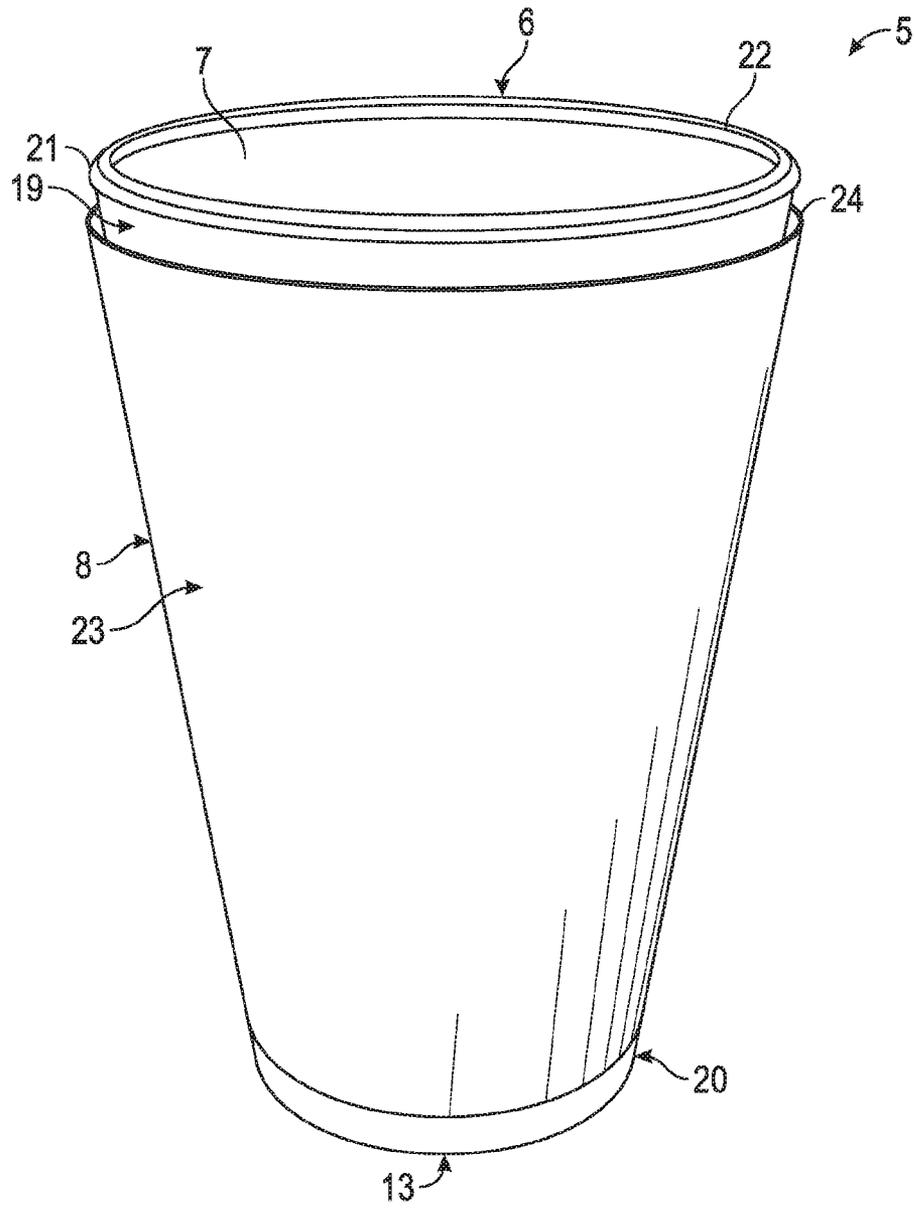


FIG. 1



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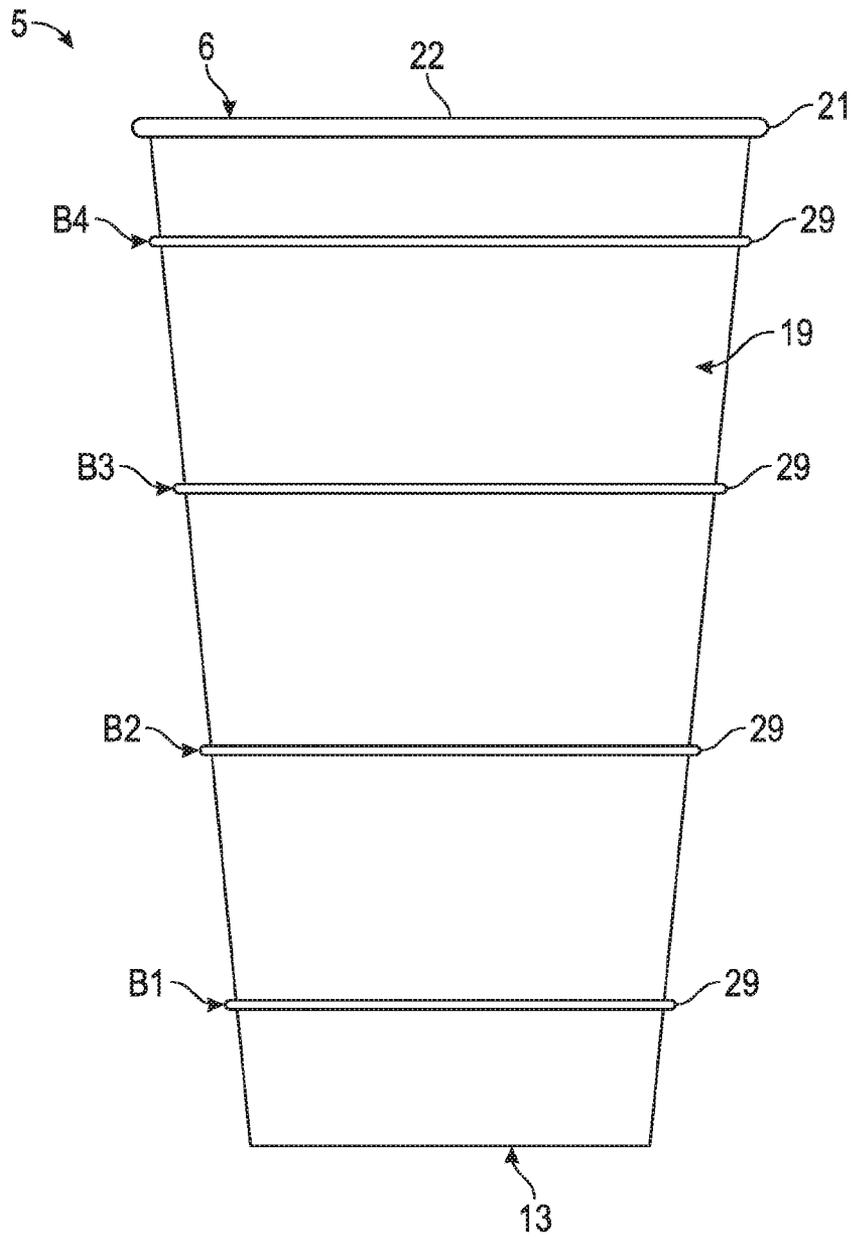


FIG. 3

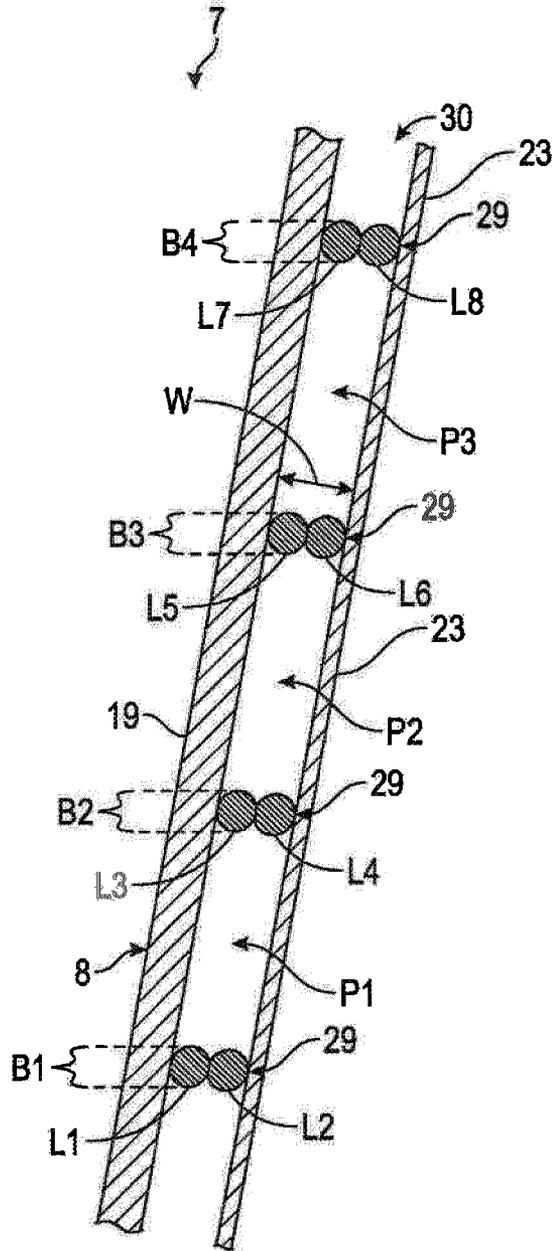


FIG. 4

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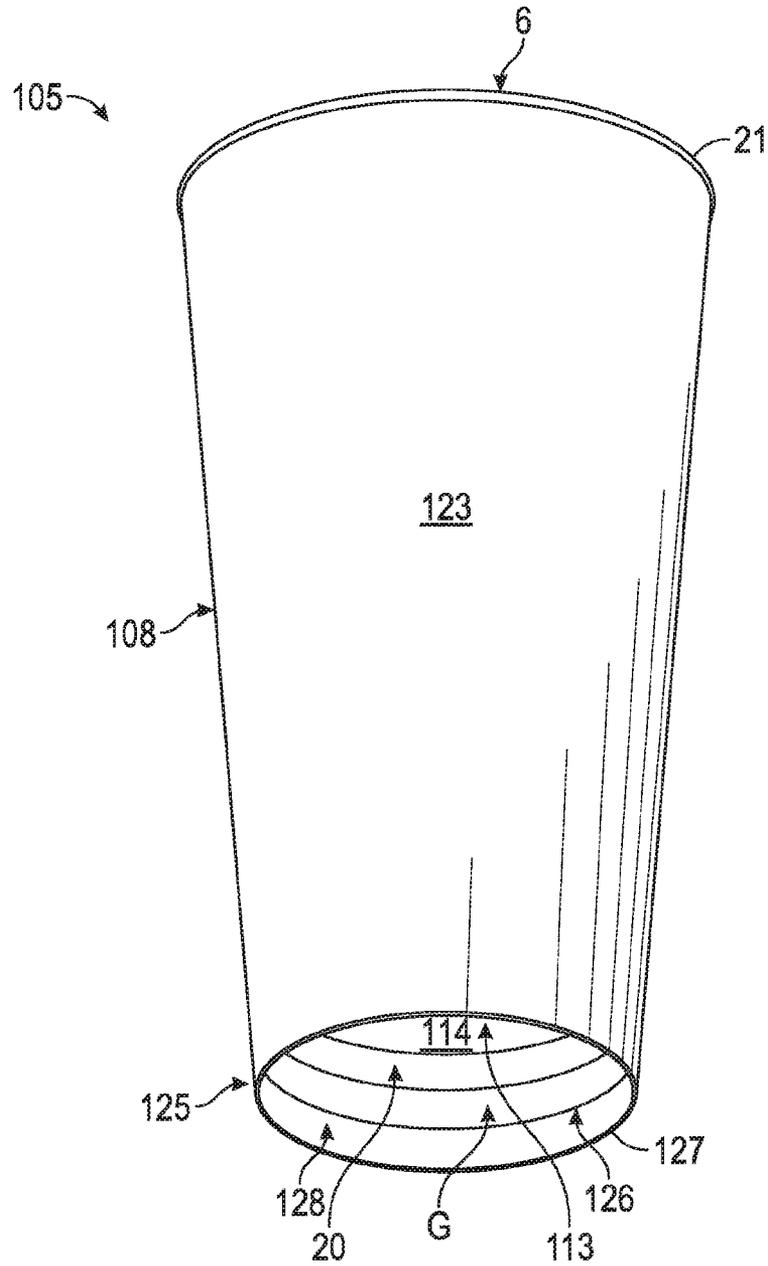


FIG. 5



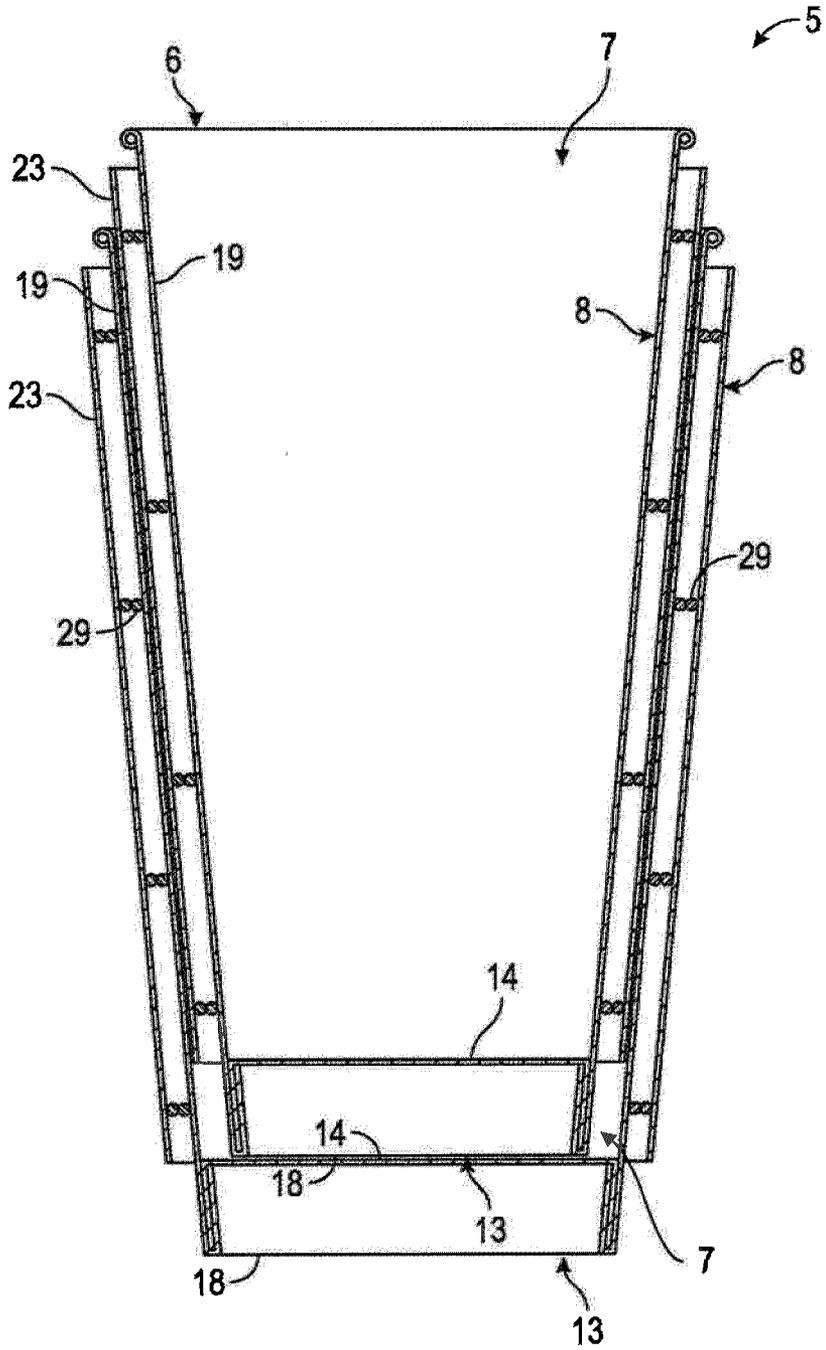


FIG. 7A

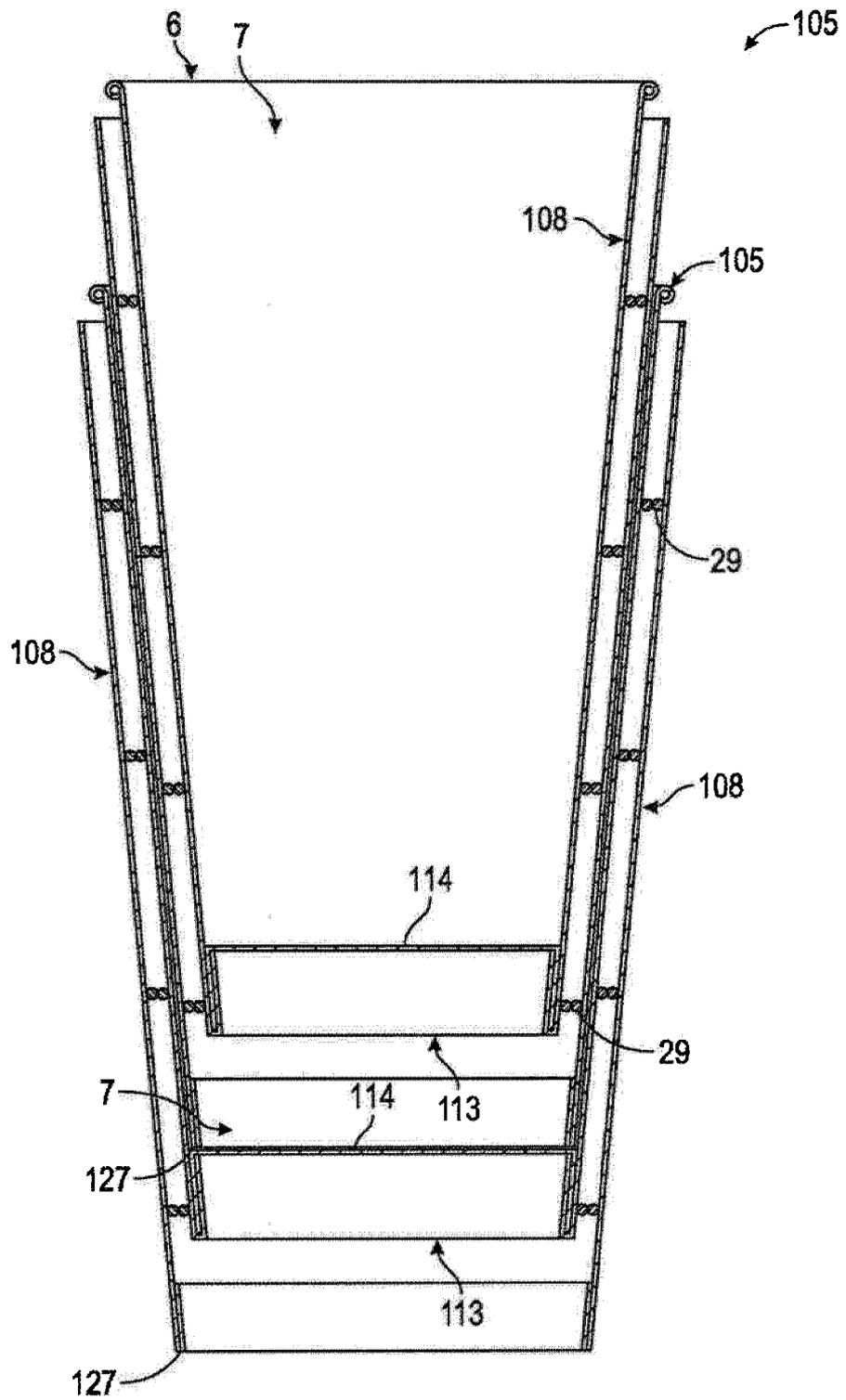


FIG. 7B

