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Bottle shaped container

Abstract

A bottle-shaped container including a neck portion, a body portion, a first recess having a first longitudinal length, and a second recess having a second longitudinal length. A center of the first longitudinal length is aligned with a center of the second longitudinal length. The recesses of the side walls together defining a side grip to allow a user to grasp the container. One side wall is for a thumb of the user, and the other side wall is for up to four fingers, which exclude the thumb, to grasp the bottle in the way that lends itself to the shape of the bottle.

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Background/Summary

CROSS-REFERENCE TO RELATED APPLICATION (1) This application is a Continuation-In-Part of U.S. application Ser. No. 29/702,166 filed Aug. 16, 2019 the content of which is incorporated herein by reference.

BACKGROUND OF THE INVENTION
1. Field of the Invention
(1) The embodiment herein generally relates to the field of bottles and more particularly to a bottle shaped container.
2. Description of the Prior Art
(2) Bottles are Plastic, and/or glass bottle-shaped containers have been extremely common over the years in the beverage, condiment, and household products industry. Generally, these containers, which have included a variety of shapes and sizes have been blow molded from a biaxially oriented synthetic resin such as, for example, polyethylene terephthalate resin. Blow molding of plastics allow the containers to be easily formed with increased elasticity thereby producing a container which is durable, lightweight and inexpensive.
(3) U.S. Pat. No. 4,890,752 to Ota et al. discloses one example of a biaxial-orientation blow-molded bottle-shaped container. The container is integrally molded with a neck at the top of a cylindrical body and includes a side grip formed by a pair of recesses which are rectangularly shaped and located on the rear portion of each side wall of the container. At the centers of the recesses are flat surface portions with a plurality of anti-slip strips formed axially in parallel at predetermined intervals on the front of the container.
(4) Furthermore the side grip of the above plastic container allows the user to lift and handle the container. However, depending on the fill of the container and the characteristics of the user, the side grip may not always be comfortable and easy to use. This may cause a user to grasp the container in areas not adapted for gripping which could result in the user losing control and dropping of the container. It could also result in damage to the container in the grasped area. The contents of the container could thus be spilled or even worse the container could burst or break.
SUMMARY OF THE INVENTION
(5) It is an object of one aspect of the present invention to provide a bottle shaped container that overcomes the above problems.
(6) It is an object of one aspect of the present invention to provide a bottle shaped container having a grip configuration that makes grasping and gripping of the container easier.
(7) In view of the foregoing, one aspect of the present invention describes a bottled shaped container comprising: a neck portion; a body portion; a first recess having a first longitudinal length, and a second recess having a second longitudinal length, wherein a center of the first

longitudinal length is aligned with a center of the second longitudinal length.
(8) In accordance with one aspect of the present invention, the bottle is formed of glass and/or plastic.
(9) In accordance with one aspect of the present invention, the first recess and the second recess are symmetrically positioned in the body portion.
(10) In accordance with one aspect of the present invention, the first longitudinal length is about half the second longitudinal length.
(11) In accordance with one aspect of the present invention, the container comprising a pour spout aligned with the shorter recess.
(12) In accordance with one aspect of the present invention, the bottle-shaped container comprises: a portion front wall; a back wall; side walls, each side wall of the portion having a recess, the recesses of the side walls together defining a side grip to allow a user to grasp the container from the side walls.
(13) In accordance with one aspect of the present invention, the one side wall is for up to four fingers to grip and is double the size of the corresponding side wall, which is for the user's thumb, thus enabling to grasp the bottle in the specific way in which the shape of the bottle lends itself.
(14) In accordance with one aspect of the present invention, each of the two recesses includes a portion extending toward a center of the container, one recess is half the size of the other recess.
(15) In accordance with one aspect of the present invention, the recesses of the side walls are positioned opposite from each other.
(16) In accordance with one aspect of the present invention, the recesses of the side walls are symmetrically positioned.
(17) In accordance with one aspect of the present invention, second recess is half the size of the first recess, although other sizes are conceivable such as one third, one quarter, or the like.
(18) In accordance with one aspect of the present invention, the bottle has an extending portion having two side walls, each side wall of the portion having different-sized recesses, the recesses of the side walls together defining a side grip to allow a user to grasp the container by the side walls with fingers that correspond to the recesses.
(19) One aspect of the present invention is a container having a grip configuration that makes grasping and gripping of the container easier to use, which reduces spillage.
(20) In accordance with one aspect of the present invention, the bottle has a portion extending having two side walls, each side wall of the portion extending having two side walls, each side wall of the portion having different-sized recesses.
(21) These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following descriptions, while indicating preferred embodiments and numerous specific details thereof, are given by way of illustration and not of limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the spirit thereof, and the embodiments herein include all such modifications.

Description

BRIEF DESCRIPTION OF THE DRAWINGS
(1) The embodiments herein will be better understood from the following detailed description with reference to the drawings, in which:
(2) FIG. **1** is a frontal perspective view of a bottle-shaped container;
(3) FIG. **2** is a side view of the bottle-shaped container;
(4) FIG. **3** is a front view of the bottle-shaped container;

(5) FIG. **4** is a rear view of the bottle-shaped container; and
(6) FIG. **5** is an exploded view of the bottle-shaped container.
DETAILED DESCRIPTION OF THE PRESENTLY PREFERRED EMBODIMENTS
(7) The embodiments herein and the various features and advantageous details thereof are explained more fully with reference to the non-limiting embodiments that are illustrated in the accompanying drawings and detailed in the following description. Descriptions of well-known components and processing techniques are omitted to not unnecessarily obscure the embodiments herein. The examples used here are intended merely to facilitate an understanding of ways in which the embodiments herein may be practiced and to further enable those of skill in the art to practice the embodiments herein. Accordingly, the examples should not be construed as limiting the scope of the embodiments herein.
(8) The embodiments herein achieve this by providing a bottle-shaped container.
(9) FIG. **1** illustrates a frontal perspective view of a bottle-shaped container **100**. The bottle shaped container comprises a neck **10**, a transition **20**, a body **30**, and a base **40**. While shown in a specific configuration, the bottle-shaped container **100** can be configured in multiple different shapes. Indents or recesses for gripping the bottle-shaped container **100** are provided in each configuration of the bottle **100**.
(10) The bottle-shaped container **100** is sealed with a cap **300**. The cap **300** is a flip-top cap. However, the cap **300** can be, but is not limited to, a screw cap, a snap-on cap, and crown cap, or the like.
(11) The base **40** of the bottle-shaped container **100** is configured for the bottle to rest on. While the base **40** is generally planar, other configurations are possible. The base **40** may include a central punt, although such a punt is not necessary.
(12) The cap **300** is attached to a neck **10**, which is generally tapered in the longitudinal direction of the bottle-shaped container **100**. A transition area **20** has a greater taper than the neck **10**. The neck **10** and transition **20** are provided so that the diameter of the body **30** is tapered to the cap **300**. The neck **10** and transition **20** may have a constant taper or a variable taper. It should be noted that the bottle-shaped container **100** can be can or drum shaped as well.
(13) In one aspect of the present invention, the body **30** is generally circular. The term wall generally defines a 90° section of the circular body **30**. The body **30** includes a recess **200**. The recess **200** is radially inside an overall circumference of the body **30**. The recess **200**, while shown interrupting the outer surface of the bottle-shaped container **100**, an inner surface of the body **30** may or may not have a corresponding shape. The recess **200** is substantially rectangular, bounded by linear features **210**, **220**, **230**, and **240**. The linear features form a rectangular recess, however, other shapes are conceivable including circles, ovals, and other polygons. In the longitudinal direction, the lead-ins **250**, **260** to the recess **200** are preferably sloped. While the lead-ins can be substantially perpendicular to a surface of the recess **200**, the sloped lead-ins provide easier manufacture.
(14) FIG. **2** illustrates a side view of the bottle-shaped container, in accordance with one aspect of the present invention. The bottle shaped container comprises a first recess **200** and a second recess **400**. The recess **400** is substantially rectangular, bounded by linear features **410**, **420**, **430**, and **440**, as shown in FIG. **4**. The shape of the recess **400** includes but is not limited to being rectangular, circular, oval, and other polygons. In the longitudinal direction, the lead-ins **450**, **460** to the recess **400** are preferably sloped. While the lead-ins can be substantially perpendicular to a surface of the recess **400** the sloped lead-ins provide easier manufacture. The recess **200** has a length L. The recess **400** has a length of about L/2. It should be noted that other relationships between the recesses are possible including L/3, L/4, and the like.
(15) According to one aspect of the present invention, the longitudinal centers of recess **200** and **400** are aligned.
(16) According to one aspect of the present invention, a longitudinal center of the body portion **30**

is aligned with the centers of the recesses **200**, **400**.
(17) FIG. **3** and FIG. **4** respectively illustrate a front view and a rear view of the bottle-shaped container. While shown as rectangular areas other shapes are conceivable. Additionally, an undulating surface is can be provided for the recesses **200**, **400** configured to be finger shaped to accommodate the fingers of a user hand. Alternatively, or additionally, the recesses **200**, **400** are textured to enhance grip.
(18) FIG. **5** illustrates an exploded view of the bottle-shaped container, in accordance with According to one aspect of the present invention. The cap **300**, in one embodiment, is a pour cap typically used for but not limited to hot sauce, soy sauce, or the like. The cap **300** includes a base **310** configured to mate with the neck **10** of the bottle **100**. The base **310** preferably includes a hinge **312** for a flip top **330**. Alternatively, the base **310** and/or top **330** can be a screw top such that only a single component is required. The cap **300** includes an insert **320** that is generally configured to be arranged radially inside the neck **10** and/or base **310**.
(19) According to one aspect of the present invention, the insert **320** is a friction fit. The insert **320** includes a pour spout **324** and an optional air hole **322** to assist in smooth pouring. The optional air hole **322** is present based at least in part on the material to be poured.
(20) According to one aspect of the present invention, the top **300** includes a flip top **330** that has a sealing top **335**. The sealing top **335** has sealing elements configured to seal the pour spout **324** and optional air hole **322**. The top **300** also includes a hinge portion **332** configured to mate with the hinge **312**. The two portions are held together with a pin **340**. Alternatively, the top **300** can be molded as a single piece.
(21) According to one aspect of the present invention, the bottle, more specifically the neck **10** is keyed as is the cap **300**. The corresponding keying ensures a specific orientation between the pour spout **324** of the cap **300**, the first recess **200** and the second recess **400**. Preferably, the pour spout **324** is closer to the longitudinal center of the second recess **400** than the longitudinal center of the first recess **200**.
(22) According to one aspect of the present invention, the cross sectional shape of the body **30**, as well as other portions of the body, includes but is not limited to oval, round, square, rectangular, or other polygonal shape. The recesses are describes as being arranged on the body portion **30**. However, the recesses can be arranged on the neck **10** or transition **20** if such a transition is present.
(23) According to one aspect of the present invention, in addition to soy sauce and hot sauce, and food service dispensers in general, the bottle shaped container can also be used for beer and wine bottles, and/or any alcoholic/non-alcoholic beverages, oil, or other liquid.
(24) As mentioned, there remains the foregoing description of the specific embodiments that will fully reveal the general nature of the embodiments herein that others can, by applying current knowledge, readily modify and/or adapt for various applications such specific embodiments without departing from the generic concept, and, therefore, such adaptations and modifications should and are intended to be comprehended within the meaning and range of equivalents of the disclosed embodiments. It is to be understood that the phraseology or terminology employed herein is for the purpose of description and not of limitation. Therefore, while the embodiments herein have been described in terms of preferred embodiments, those skilled in the art will recognize that the embodiments herein can be practiced with modification within the spirit and scope of the appended claims.
(25) Thus, while there have shown and described and pointed out fundamental novel features of the invention as applied to a preferred embodiment thereof, it will be understood that various omissions and substitutions and changes in the form and details of the devices illustrated, and in their operation, may be made by those skilled in the art without departing from the spirit of the invention. For example, it is expressly intended that all combinations of those elements and/or method steps which perform substantially the same function in substantially the same way to achieve the same results are within the scope of the invention. Moreover, it should be recognized

that structures and/or elements and/or method steps shown and/or described in connection with any disclosed form or embodiment of the invention may be incorporated in any other disclosed or described or suggested form or embodiment as a general matter of design choice. It is the intention, therefore, to be limited only as indicated by the scope of the claims appended hereto.

Claims

1. A bottle-shaped container comprising: a neck portion; a body portion; and a base, wherein, the body portion has a first recess having a first longitudinal length and a second recess having a second longitudinal length, wherein, a center of the first longitudinal length is aligned with a center of the second longitudinal length at a same axial position such that a distance from the base to the center of the first longitudinal length and the center of the second longitudinal length are equal, wherein the first longitudinal length is different than the second longitudinal length, wherein each longitudinal end of the first recess is axially offset from each longitudinal end of the second recess by a predetermined amount.
2. The bottle-shaped container as claimed in claim 1, wherein the first recess and the second recess are symmetrically positioned in the body portion.
3. The bottle-shaped container as claimed in claim 2, wherein the second longitudinal length is half of the first longitudinal length.
4. The bottle-shaped container as claimed in claim 2, wherein the second longitudinal length is one third of the first longitudinal length.
5. The bottle-shaped container as claimed in claim 2, wherein the second longitudinal length is one quarter of the first longitudinal length.
6. The bottle-shaped container as claimed in claim 2, wherein a longitudinal center of the body portion is aligned with the center of the first longitudinal length and the center of the second longitudinal length.
7. The bottle-shaped container as claimed in claim 1, further comprising a pour spout that is arranged closer to the longitudinal center of the second recess than the longitudinal center of the first recess.
8. The bottle-shaped container as claimed in claim 1, wherein the bottle-shaped container is one of glass and plastic.
9. The bottle-shaped container as claimed in claim 1, wherein the pour spout offset from an axis of the bottle is arranged closer to the longitudinal center of the second recess than the longitudinal center of the first recess.
10. The bottle-shaped container as claimed in claim 1, wherein the first recess and the second recess are rectangular.
11. The bottle-shaped container as claimed in claim 1, wherein the first recess and the second recess are planar.
12. The bottle-shaped container as claimed in claim 1, wherein the first recess is arranged opposite the second recess in the body portion.
13. A bottle-shaped container, comprising: a neck portion; and a body portion having: a front wall; a back wall; and side walls, wherein each side wall has a respective recess, the respective recesses of the side walls together defining a side grip to allow a user to grasp the bottle-shaped container from the side walls, and wherein each recess is longitudinally centered on the body portion, wherein a center of each recess is aligned at a same axial position of the body portion such that a distance from a base of the body portion to the center of each recess is equal, wherein respective longitudinal ends of each recess are axially offset from one another by a predetermined amount.
14. The bottle-shaped container as claimed in claim 13, wherein one side wall recess is configured for corresponding side wall recess at least four fingers to grip and is double a size of a corresponding side wall recess, which is configured for a thumb and enables grasping the bottle-

shaped container in a specific way in which a shape of the bottle-shaped container lends itself.
15. The bottle-shaped container as claimed in claim 13, wherein the recesses of the side walls are oppositely positioned from each other.
16. The bottle-shaped container as claimed in claim 13, wherein the recesses of the side walls are symmetrically positioned.
17. The bottle-shaped container as claimed in claim 13, wherein the respective recesses of the side walls comprises a first recess and a second recess, and wherein the second recess is half a size of the first recess.
18. The bottle-shaped container as claimed in claim 13, wherein the bottle-shaped container has a portion having two side walls, each side wall of the portion having different-sized recesses, the recesses of the side walls together defining a side grip to allow a user to grasp the bottle-shaped container from the side walls with fingers that correspond to the recesses.