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Dual Lid Canister Assembly with a Pour Spout

Abstract

A canister assembly includes a canister having a top opening into an interior of the canister, a first lid removably attached on the canister over the top opening with the first lid having a lid opening through the first lid, a spout on the first lid at the lid opening with the spout being movable between a closed position where the spout extends over and closes the lid opening and an opened position where the spout extends from and opens the lid opening, and a second lid that is removably attached to the first lid with the second lid extending over the spout when the spout is in the closed position with the second lid holding the spout in the closed position.

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Background/Summary

BACKGROUND OF THE INVENTION

[0001] This disclosure pertains to a canister assembly comprising a canister, a first lid with a pour spout, and a second lid. More specifically, this disclosure pertains to a canister for storing and dispensing a product, a first lid with a pour spout that is removably attachable to the canister with the spout being movable between an opened position where the spout is usable to dispense the product from the canister and a closed position where the spout seals the product in the canister, and a second lid that is removably attachable on the first lid and provides a seal over the spout on the first lid.

SUMMARY OF THE INVENTION

[0002] A canister assembly includes a canister having an opening in a top wall of the canister into an interior of the canister. The canister has a first indentation and a second indentation in opposite side walls of the canister that form a manual handle on the canister.

[0003] The canister assembly also includes a first lid removably attached on the top wall of the canister over the opening into the canister. The first lid has a lid opening through the first lid.

[0004] A spout is provided on the first lid at the lid opening. The spout has the configuration of a chute or trough with a bottom pour panel and first and second guide panels on opposite sides of the pour panel. The panels are interconnected with a U-shaped cross section configuration. The spout is movable on the first lid between a closed position where the spout extends over and closes the lid opening and an opened position where the spout extends from the lid opening and opens the lid opening.

[0005] A second lid is removably attached to the first lid. The second lid extends over the spout when the spout is in the closed position on the first lid. With the second lid removably attached to the first lid, the second lid extends over the spout in the closed position and prevents the spout from being moved from the closed position to the opened position.

[0006] The first lid has a flat top surface with the lid opening extending through the flat top surface.

[0007] The second lid has a flat bottom surface. The flat bottom surface of the second lid is positioned adjacent and covering over the flat top surface of the first lid and the opening through the first lid when the second lid is removably attached on the first lid.

[0008] The features, functions and advantages that have been discussed can be achieved independently in various embodiments or may be combined in yet other embodiments, further details of which can be seen with reference to the following drawings and description.

Description

BRIEF DESCRIPTION OF DRAWINGS

[0009] Further objects and features of the canister assembly are set forth in the following detailed description of the assembly and in the drawing figures.

[0010] FIG. 1 is a representation of a top perspective view of the canister assembly.

[0011] FIG. 2 is a representation of the canister assembly similar to that of FIG. 1, with the second lid removed.

[0012] FIG. 3 is a representation of a top perspective, exploded view of the component parts of the canister assembly.

[0013] FIG. 4 is a representation of a side elevation view of the canister assembly, with the opposite side of the canister assembly being a mirror image thereof.

[0014] FIG. 5 is a representation of a front elevation view of the canister assembly.

[0015] FIG. 6 is a representation of a bottom plan view of the canister assembly.

[0016] FIG. 7 is a representation of a top plan view of a canister assembly.

[0017] FIG. 8 is a representation of a cross section view of the canister assembly in the plane of

line **8-8** of FIG. **7**.

[0018] FIG. **9** is a representation of a cross section view of the canister assembly in the plane of line **9-9** of FIG. **7**.

DETAILED DESCRIPTION OF THE INVENTION

[0019] As represented in the drawing figures, the canister assembly **10** of this disclosure is basically comprised of a canister **12**, a first lid **14** that is removably attachable to the canister **12**, and a second lid **16** that is removably attachable to the first lid **14**. Each of these component parts is constructed of a material that provides the parts with sufficient structural strength for the intended functioning of the canister assembly **10**. For example, the material could be a plastic material or any other equivalent type of material. Additionally, certain component parts of the canister assembly can be transparent, for example the canister **12** and also the second lid **16** if desired. The second lid **16** is represented as being transparent in FIGS. **1**, **3**, **7** and **8**.

[0020] The canister **12** has a general configuration of a rectangular block defined by a bottom wall **22** and an opposite top wall **24**, a first side wall **26** and an opposite second side wall **28**, a third side wall **32** and an opposite fourth side wall **34**. The canister can have other equivalent configurations. The bottom wall **22**, top wall **24**, first side wall **26**, second side wall **28**, third side wall **32** and fourth side wall **34** are all interconnected as a single unit. As stated earlier, the canister **12** could be constructed of a transparent plastic material to enable an observer to determine an amount of product in the interior **36** of the canister **12**.

[0021] The canister **12** includes a cylindrical neck **38** that extends upwardly from the top wall **24** of the canister. The neck **38** has a cylindrical exterior surface with screw threading **42** formed on the exterior surface. The neck **38** as a cylindrical interior surface that surrounds a top opening **44** of the canister **12** that provides access to the interior **36** of the canister. The cylindrical configuration of the neck **38** is centered on the top wall **24** of the canister **12** and the interior **36** of the canister **12**.

[0022] There is a first indentation **46** formed in the first side wall **26** and the third side wall **32** where the first side wall and third side wall merge. There is a second indentation **48** formed in the first side wall **26** and the fourth side wall **34** where the first side wall and the fourth side wall merge. The first indentation **46** and second indentation **48** form a hand grip or manual handle on the first side wall **26** that facilitates manually gripping the canister **12** when transporting the canister or when inverting the canister to dispense product from the canister. Alternatively, the hand grip could be formed by just the third side wall **32** and the fourth side wall **34** being spaced apart by the first side wall **26** a distance that enables gripping the canister **12** by the thumb and fingers of a single hand engaging the third side wall **32** and the fourth side wall **34**.

[0023] The first lid **14** has a circular top surface **52** that is substantially flat. A cylindrical rim **54** depends downward from the periphery or peripheral edge of the top surface **52**. The rim **54** has internal screw threading that is complementary to the external screw threading **42** on the neck **38** of the canister **12**. The rim **54** also has external screw threading **56** that extends around the top of the rim **54** where the rim merges into the top surface **52** of the first lid **14**. The rim **54** has a gripping surface below the external screw threading **56** that also extends around the rim. There is a recess **58** formed into the first lid top surface **52** adjacent the rim **54**. As represented in FIGS. **1-3**, **8** and **9**, when the first lid **14** is attached to the canister neck **38** the mating internal threaded surface of the first lid rim **54** and the external threaded surface of the neck **38** position the recess **58** between the first indentation **46** and the second indentation **48** on the canister **12**.

[0024] There is an opening **62** through the top surface **52** of the first lid **14**. The opening **62** has a general trapezoidal configuration that is defined by a first edge **64** and an opposite second edge **66**, a third edge **68** and an opposite fourth edge **72**. There is a first slot **74** formed through the top surface **52** of the first lid **14** at the intersection of the first edge **64** and the third edge **68**. There is a second slot **76** formed through the top surface **52** of the first lid **14** at the intersection of the second edge **66** and the third edge **68**. There is a first pivot indentation **78** formed in the top surface **52** of the first lid **14** at the intersection of the first edge **64** and the fourth edge **72**. There is a second pivot

indentation **82** formed in the top surface **52** of the first slit **14** at the intersection of the second edge **66** and the fourth edge **72**.

[0025] There is a pour spout **84** mounted on the top surface **52** of the first lid **14** for movement through the opening **62** in the top surface. The spout **84** has a configuration of a chute or trough with an open top. The spout configuration includes a pour panel **86** at the bottom of the spout that supports and guides product dispensed from the canister assembly **10**. The spout **84** also includes a first guide panel **88** and a second guide panel **92** at opposite sides of the pour panel **86**. The pour panel **86**, first guide panel **88** and second guide panel **92** are connected together with a general U-shaped cross section configuration that is open at the top. The open top enables viewing product at it is dispensed across the pour spout trough. Together the pour panel **86**, the first guide panel **88** and the second guide panel **92** function as a chute or trough that guides product dispensed from the canister **12** through the lid opening **62** and across the pour panel **86** when dispensing product from the canister assembly **10**.

[0026] As represented in FIG. 3, the spout **84** also includes a first pivot pin **94** and a second pivot pin **96** that engage in the respective first pivot indentation **78** and second period indentation **82** in the top surface **52** of the first lid **14**. The engagement of the pivot pins in the pivot indentations create a pivot connection between the pour spout **84** and the first lid **14**. Other equivalent pivot connections between the spout **84** and the first lid **14**. The pivot connection enables the spout **84** to be moved between an opened position represented in FIG. 2 and a closed position represented in FIG. 1. The first guide panel **88** and the second guide panel **92** have free edges that extend into the respective first slot **74** and second slot **76**. The engagement of the first guide panel **88** in the first slot **74** and the engagement of the second guide panel **92** in the second slot **76** guide the movement of the first guide panel **88** and second guide panel **92** through the opening **62** in the lid top surface **52** as the spout is moved between the opened and closed positions.

[0027] There is a general U-shaped spout flange **98** that extends outwardly from and around the pour panel **86** where the pour panel merges with the first guide panel **88** and the second guide panel **92**. The flange **98** engages against the top surface **52** of the first lid **14** when the spout **84** is moved to the closed position over the opening **62** in the top surface **52**. The flange **98** forms a seal around the opening **62** when the spout **84** is moved to the closed position on the top surface **52** of the first lid **14**. As represented in FIG. 9, a portion of the flange **98** extends over the recess **56** formed in the lid top surface **52**. This enables a user to insert a finger into the recess **58** and beneath the flange **98** to easily engage the flange **98** and move the flange and the spout **84** from the closed position of the spout to the opened position of the spout.

[0028] As represented in FIGS. 8 and 9, the second lid **16** has a circular top surface **102** that is substantially flat. A cylindrical rim **104** extends downwardly from the periphery or peripheral edge of the top surface **102** of the second lid **16**. The rim **104** has internal screw threading that is complementary to the external screw threading **56** of the first lid **14**. The rim **104** surrounds a bottom surface **106** of the second lid **16** that is also substantially flat. With the second lid **16** removable attached to the first lid **14** the bottom surface **106** of the second lid extends over and covers over the first lid top surface **52**, over the opening **62** through the first lid top surface **52** and over the spout **84** in the closed position of the spout on the first lid **14** and prevents the spout **84** from being moved from the closed position to the opened position.

[0029] As various modifications could be made in the construction of the dual lid canister assembly with a pour spout and its method of operation herein described and illustrated without departing from the scope of the invention, it is intended that all matter contained in the foregoing description or shown in the accompanying drawings shall be interpreted as illustrative rather than limiting. Thus, the breadth and scope of the present disclosure should not be limited by any of the above described exemplary embodiments, but should be defined only in accordance with the following claims appended hereto and their equivalents.

Claims

- 1.** A canister assembly comprising: a canister, the canister having a canister opening; a first lid, the first lid having a lid opening through the first lid, the first lid being removably attached to the canister with the first lid extending over the canister opening; a spout on the first lid at the lid opening, the spout being movable on the first lid between a closed position where the spout extends over and closes the lid opening and an opened position where the spot extends from and opens the lid opening; and a second lid, the second lid being removably attached to the first lid with the second lid extending over the spout with the spout in the closed position on the first lid.
- 2.** The canister assembly of claim 1, further comprising: the second lid removably attached to the first lid extends over the spout in the closed position of the spout on the first lid and prevents the spout from being moved from the closed position to the opened position.
- 3.** The canister assembly of claim 1, further comprising: the first lid has a flat top surface and a cylindrical rim extending around a periphery of the flat top surface; the second lid has a flat top surface and a cylindrical rim extending around a periphery of the flat top surface of the second lid; and the rim of the second lid is removably attached to the rim of the first lid to removably attach the second lid to the first lid.
- 4.** The canister assembly of claim 3, further comprising: the rim of the first lid has external screw threading on the rim; and the rim of the second lid has internal screw threading that mates with the external screw threading on the rim of the first lid and removably attaches the second lid to the first lid.
- 5.** The canister assembly of claim 1, further comprising: a flange on the spout, the flange projecting from the spout and extending around the spout, the flange engages with the first lid and closes the lid opening when the spout is in the closed position on the first lid.
- 6.** The canister assembly of claim 5, further comprising: a recess in a top surface of the first lid; and the flange extends over the recess when the spout is in the closed position of the spout on the first lid.
- 7.** The canister assembly of claim 6, further comprising: a first indentation in the canister; a second indentation in the canister, the first indentation and the second indentation forming a manual handle on the canister; and the flange on the spout and the recess in the top surface of the first lid being positioned between the first indentation and the second indentation.
- 8.** The canister assembly of claim 1, further comprising: the spout having a configuration of a trough with a bottom panel and first and second guide panels on opposite sides of the bottom panel, the bottom panel and first and second guide panels having a U-shaped cross section configuration.
- 9.** A canister assembly comprising: a canister, the canister having a canister opening; a first lid, the first lid having a lid opening through the first lid, the first lid being removably attached to the canister with the first lid extending over the canister opening; a spout on the first lid at the lid opening, the spout having a configuration of a trough with a bottom panel and first and second guide panels on opposite sides of the bottom panel, the bottom panel and first and second guide panels having a U-shaped cross section configuration, the spout being movable on the first lid between a closed position where the spout extends over and closes the lid opening and an opened position where the spot extends from and opens the lid opening; and a second lid, the second lid being removably attached to the first lid with the second lid extending over the spout with the spout in the closed position on the first lid.
- 10.** The canister assembly of claim 9, further comprising: the second lid removably attached to the first lid extends over the spout in the closed position of the spout on the first lid and prevents the spout from being moved from the closed position to the opened position.
- 11.** The canister assembly of claim 9, further comprising: the first lid has a flat top surface and a cylindrical rim extending around a periphery of the flat top surface; the second lid has a flat top

surface and a cylindrical rim extending around a periphery of the flat top surface of the second lid; and the rim of the second lid is removably attached to the rim of the first lid to removably attach the second lid to the first lid.

12. The canister assembly of claim 11, further comprising: the rim of the first lid has external screw threading on the rim; and the rim of the second lid has internal screw threading that mates with the external screw threading on the rim of the first lid and removably attaches the second lid to the first lid.

13. The canister assembly of claim 9, further comprising: a flange on the spout, the flange projecting from the spout and extending around the spout, the flange engages with the first lid and closes the lid opening when the spout is in the closed position on the first lid.

14. The canister assembly of claim 13, further comprising: a recess in a top surface of the first lid; and the flange extends over the recess when the spout is in the closed position of the spout on the first lid.

15. The canister assembly of claim 14, further comprising: a first indentation in the canister; a second indentation in the canister, the first indentation and the second indentation forming a manual handle on the canister; and the flange on the spout and the recess in the top surface of the first lid being positioned between the first indentation and the second indentation.

16. A canister assembly comprising: a canister, the canister having a canister opening; a first lid, the first lid having a flat top surface with a lid opening through the flat top surface of the first lid, the first lid being removably attached to the canister with the first lid extending over the canister opening; a spout on the first lid at the lid opening, the spout being movable on the first lid between a closed position where the spout extends over and closes the lid opening and an opened position where the spot extends from and opens the lid opening; and a second lid, the second lid having a flat bottom surface, the second lid being removably attached to the first lid with the flat bottom surface of the second lid positioned adjacent and covering over the flat top surface of the first lid and the spout with the spout in the closed position on the first lid.

17. The canister assembly of claim 16, further comprising: the second lid removably attached to the first lid extends over the spout in the closed position of the spout on the first lid and prevents the spout from being moved from the closed position to the opened position.

18. The canister assembly of claim 16, further comprising: a flange on the spout, the flange projecting from the spout and extending around the spout, the flange engages with the flat top surface of the first lid and closes the lid opening when the spout is in the closed position on the first lid.

19. The canister assembly of claim 18, further comprising: a recess in the flat top surface of the first lid; and the flange extends over the recess when the spout is in the closed position of the spout on the first lid.

20. The canister assembly of claim 16, further comprising: the spout having a configuration of a trough with a bottom panel and first and second guide panels on opposite sides of the bottom panel, the bottom panel and first and second guide panels having a U-shaped cross section configuration.
