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CONDIMENT BOTTLE DEVICE

Abstract

A condiment bottle device for dispensing precise amounts of a fluid condiment with no waste includes a bottle that has a bottom end which is open and a top end which is open. A closure is removably attachable to the top end of the bottle for opening or closing the top end. A base is removably attachable to the bottom end of the bottle for closing the bottom end and a plunger is movably attached to the base. The plunger travels upwardly within the bottle when the plunger is manipulated in a dispensing condition to urge the fluid condiment outwardly from the bottle. Conversely, the plunger travels downwardly in the bottle when the plunger is manipulated in a filling condition to facilitate the bottle to be filled with the fluid condiment.

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Background/Summary

CROSS-REFERENCE TO RELATED APPLICATIONS
[0001] Not Applicable
STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR DEVELOPMENT
[0002] Not Applicable
THE NAMES OF THE PARTIES TO A JOINT RESEARCH AGREEMENT
[0003] Not Applicable
INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A COMPACT DISC OR AS A TEXT FILE VIA THE OFFICE ELECTRONIC FILING SYSTEM
[0004] Not Applicable
STATEMENT REGARDING PRIOR DISCLOSURES BY THE INVENTOR OR JOINT INVENTOR
[0005] Not Applicable
BACKGROUND OF THE INVENTION
(1) Field of the Invention
[0006] The disclosure relates to condiment devices and more particularly pertains to a new condiment device for dispensing a precise amount of a fluid condiment with no waste. The device includes a bottle with an open top end and an open bottom end which can contain a fluid condiment. A base is attachable to the bottom end and plunger is movably integrated into the base for urging the fluid condiment outwardly from the bottle. A closure is attachable to the top end of the bottle and the closure can be opened to dispense the fluid condiment onto a food item.
(2) Description of Related Art Including Information Disclosed Under 37 CFR 1.97 and 1.98
[0007] The prior art relates to condiment devices including a variety of condiment dispensing devices that each at least includes a container and a rotary operated plunger for urging a fluid material outwardly from the container, including a knob that can be rotated and a base that can be rotated. In no instance does the prior art disclose a condiment dispensing device that includes a bottle and a rotary operated plunger for urging fluid material outwardly from the bottle, including a knob that is recessed into a base that is removable from the bottle.
BRIEF SUMMARY OF THE INVENTION
[0008] An embodiment of the disclosure meets the needs presented above by generally comprising a bottle that has a bottom end which is open and a top end which is open. A closure is removably attachable to the top end of the bottle for opening or closing the top end. A base is removably attachable to the bottom end of the bottle for closing the bottom end and a plunger is movably attached to the base. The plunger travels upwardly within the bottle when the plunger is manipulated in a dispensing condition to urge the fluid condiment outwardly from the bottle. Conversely, the plunger travels downwardly in the bottle when the plunger is manipulated in a filling condition to facilitate the bottle to be filled with the fluid condiment.
[0009] There has thus been outlined, rather broadly, the more important features of the disclosure in order that the detailed description thereof that follows may be better understood, and in order that the present contribution to the art may be better appreciated. There are additional features of the disclosure that will be described hereinafter and which will form the subject matter of the claims appended hereto.
[0010] The objects of the disclosure, along with the various features of novelty which characterize the disclosure, are pointed out with particularity in the claims annexed to and forming a part of this disclosure.

Description

BRIEF DESCRIPTION OF SEVERAL VIEWS OF THE DRAWING(S)
[0011] The disclosure will be better understood and objects other than those set forth above will

become apparent when consideration is given to the following detailed description thereof. Such description makes reference to the annexed drawings wherein:

[0012] FIG. **1** is a perspective view of a condiment bottle device according to an embodiment of the disclosure.

[0013] FIG. **2** is a top perspective view of an embodiment of the disclosure showing a cap in an open position.

[0014] FIG. **3** is a bottom perspective view of an embodiment of the disclosure.

[0015] FIG. **4** is a top perspective view of an embodiment of the disclosure showing a closure being removed from a bottle.

[0016] FIG. **5** is an exploded perspective view of an embodiment of the disclosure.

[0017] FIG. **6** is a front view of an embodiment of the disclosure.

[0018] FIG. **7** is a cross sectional view taken along line **7-7** of FIG. **1** of an embodiment of the disclosure.

[0019] FIG. **8** is a magnified detail view taken from circle **8** of FIG. **7** of an embodiment of the disclosure.

[0020] FIG. **9** is an in-use view of an embodiment of the disclosure.

DETAILED DESCRIPTION OF THE INVENTION

[0021] With reference now to the drawings, and in particular to FIGS. **1** through **9** thereof, a new condiment device embodying the principles and concepts of an embodiment of the disclosure and generally designated by the reference numeral **10** will be described.

[0022] As best illustrated in FIGS. **1** through **9**, the condiment bottle device **10** generally comprises a bottle **12** that has a bottom end **14** which is open and a top end **16** which is open. The bottle **12** has an outer wall **18** extending between the bottom end **14** and the top end **16** which has a shoulder **20** and a neck **22** adjacent to the top end **16** such that the top end **16** has a lesser diameter than the bottom end **14**. An outer surface **24** of the outer wall **18** has a bottom threaded portion **26** adjacent to the bottom end **14** which extends around a full circumference of the outer wall **18**. Additionally, the outer surface **24** of the outer wall **18** has a top threaded portion **28** adjacent to the top end **16** which extends around a full circumference of the outer wall **18**. The bottle **12** is comprised of a translucent material, including but not being limited to glass or plastic, to facilitate a fluid condiment **29** to be visible in the bottle **12**.

[0023] A closure **30** is removably attachable to the top end **16** of the bottle **12** for opening or closing the top end **16**. The closure **30** includes an annular ring **32** which has a threaded inner surface **34** that threadably engages the top threaded portion **28** of the outer surface **24** of the outer wall **18** of the bottle **12**. The closure **30** includes a closure gasket **36** that has a perimeter edge **37** which is coupled to the threaded inner surface **34** of the annular ring **32**. The closure gasket **36** has a slot **38** extending through an upper surface **40** and a lower surface **42** of the closure gasket **36** which is surrounded by a flap **44**. The flap **44** extends upwardly from the upper surface **40** and flap **44** is biased into a closed position such that the flap **44** defines a closed cone. In this way the closure gasket **36** can inhibit the fluid condiment **29** from passing through the slot **38**. Conversely, the flap **44** is urgeable into an open position such that the flap **44** defines an open cone thereby exposing the slot **38**. In this way the flap **44** can facilitate the fluid condiment **29** to pass through the slot **38** for applying the fluid condiment **29** to a food item.

[0024] The closure **30** includes a cap **46** that is hingedly coupled a top edge **48** of the annular ring **32**. The cap **46** is positionable in a closed position having the cap **46** lying on the top edge **48** of the annular ring **32** thereby closing the annular ring **32**. The cap **46** is positionable in an open position having the cap **46** angling away from the top edge **48** thereby opening the annular ring **32**. Additionally, the cap **46** has a grip **50** which extends into a groove **52** in an outside surface **54** of the annular ring **32** when the cap **46** is in the closed position for removably retaining the cap **46** in the closed position. The cap **46** has a tab **55** that extends outwardly from the cap **46** which can be gripped for urging the cap **46** into the open position.

[0025] A base **56** is removably attachable to the bottom end **14** of the bottle **12** for closing the bottom end **14**. The base **56** has an upper lip **58** which extends upwardly from an upper surface **59** of the base **56** and which is coextensive with a perimeter **60** of the base **56** and the upper lip **58** defines an upper space **62** in the base **56**. The upper lip **58** has an inwardly facing surface **64** that is threaded which threadably engages the bottom threaded portion **26** of the outer surface **24** of the outer wall **18** of the bottle **12** for attaching the base **56** to the bottle **12**. The base **56** has a lower lip **66** extending downwardly from a lower surface **67** of the base **56** which is coextensive with the perimeter of the base **56** and the lower lip **66** defines a lower space **68** in the base **56**. Furthermore, the lower lip **66** has a greater thickness than the upper lip **58** and the base **56** has a hole **70** extending through the base **56** and the hole **70** is centrally located on the base **56**.
[0026] A plunger **72** is movably attached to the base **56** and the plunger **72** is positioned within the bottle **12** when the base **56** is attached to the bottle **12**. The plunger **72** travels upwardly within the bottle **12** when the plunger **72** is manipulated in a dispensing condition to urge the fluid condiment **29** outwardly from the bottle **12**. The plunger **72** travels downwardly in the bottle **12** when the plunger **72** is manipulated in a filling condition to facilitate the bottle **12** to be filled with the fluid condiment **29**. The plunger **72** comprises a knob **74** that is positioned in the lower space **68** in the base **56** such that an exterior edge **76** of the knob **74** is spaced from an inwardly facing surface **78** of the lower lip **66** on the base **56**. Additionally, the knob **74** is positioned over the hole **70** in the base **56**.
[0027] The plunger **72** includes a screw **80** that is coupled to and extends upwardly from a top surface **82** of the knob **74** at a point that is centrally located on the top surface **82**. The screw **80** extends through the hole **70** in the base **56** such that the screw **80** extends upwardly into an interior of the bottle **12** when the base **56** is attached to the screw **80**. Additionally, the screw **80** is threaded between a distal end **84** of the screw **80** and a point that is spaced from the top surface **82** of the knob **74**. The screw **80** includes a stop **86** which extends around the screw **80**. The stop **86** is spaced from the knob **74** such that the stop **86** is positioned in the upper space **62** in the base **56** thereby inhibiting the screw **80** from being pulled through the slot **38**.
[0028] The plunger **72** includes a disk **88** which has an aperture **90** extending through an upper side **92** and a lower side **94** of the disk **88** and the screw **80** extends through the aperture **90** in the disk **88** such that a bounding edge **89** of the aperture **90** in the disk **88** threadably engages the screw **80**. The disk **88** travels upwardly along the screw **80** when the screw **80** is rotated in a first direction to urge the fluid condiment **29** upwardly in the bottle **12**. Conversely, the disk **88** travels downwardly along the screw **80** when the screw **80** is rotated in a second direction to inhibit the fluid condiment **29** from being urged upwardly in the bottle **12**.
[0029] The plunger **72** includes a disk gasket **96** that is applied to a perimeter edge **97** of the disk **88** having the disk gasket **96** extending fully around the perimeter edge **97** such that the disk gasket **96** abuts an inside surface **98** of the bottle **12**. The disk gasket **96** is comprised of a resiliently compressible material, including but not being limited to rubber or silicone, thereby facilitating the disk gasket **96** to form a fluid impermeable seal with the inside surface **98** of the bottle **12**. In this way the disk gasket **96** can inhibit the fluid condiment **29** from flowing past the disk gasket **96** thereby ensuring the entire quantity of the fluid condiment **29** can be dispensed from the bottle **12**.
[0030] In use, the base **56** is removed from the bottle **12** and the bottle **12** is partially filled with the fluid condiment **29** and the base **56** is reattached to the bottle **12** when the bottle **12** is partially filled. The cap **46** is flipped into the open position and the knob **74** is rotated in a first direction to facilitate the disk **88** to travel upwardly along the screw **80**. In this way the fluid condiment **29** is urged to flow outwardly through the slot **38** in the closure gasket **36** for dispensing on a food item. The cap **46** is flipped into the closed position to maintain the freshness of the fluid condiment **29** in the bottle **12**. The base **56** can be removed from the bottle **12** at any time to service the plunger **72** or to refill the bottle **12**.
[0031] With respect to the above description then, it is to be realized that the optimum dimensional

relationships for the parts of an embodiment enabled by the disclosure, to include variations in size, materials, shape, form, function and manner of operation, device and use, are deemed readily apparent and obvious to one skilled in the art, and all equivalent relationships to those illustrated in the drawings and described in the specification are intended to be encompassed by an embodiment of the disclosure.

[0032] Therefore, the foregoing is considered as illustrative only of the principles of the disclosure. Further, since numerous modifications and changes will readily occur to those skilled in the art, it is not desired to limit the disclosure to the exact construction and operation shown and described, and accordingly, all suitable modifications and equivalents may be resorted to, falling within the scope of the disclosure. In this patent document, the word “comprising” is used in its non-limiting sense to mean that items following the word are included, but items not specifically mentioned are not excluded. A reference to an element by the indefinite article “a” does not exclude the possibility that more than one of the element is present, unless the context clearly requires that there be only one of the elements.

Claims

1. A condiment bottle device for dispensing a fluid condiment by twisting a knob, said device comprising: a bottle having a bottom end being open and a top end being open; a closure being removably attachable to said top end of said bottle for opening or closing said top end; a base being removably attachable to said bottom end of said bottle for closing said bottom end; and a plunger being movably attached to said base, said plunger being positioned within said bottle when said base is attached to said bottle, said plunger traveling upwardly within said bottle when said plunger is manipulated in a dispensing condition wherein said plunger is configured to urge the fluid condiment outwardly from said bottle, said plunger travelling downwardly in said bottle when said plunger is manipulated in a filling condition wherein said plunger is configured to facilitate said bottle to be filled with the fluid condiment.

2. The device according to claim 1, wherein: said bottle has an outer wall extending between said bottom end and said top end which has a shoulder and a neck adjacent to said top end such that said top end has a lesser diameter than said bottom end; an outer surface of said outer wall has a bottom threaded portion adjacent to said bottom end which extends around a full circumference of said outer wall; said outer surface of said outer wall has a top threaded portion adjacent to said top end which extends around a full circumference of said outer wall; and said bottle is comprised of a translucent material wherein said bottle is configured to facilitate a fluid condiment to be visible in said bottle.

3. The device according to claim 1, wherein: said closure includes an annular ring which has a threaded inner surface which threadably engages said top threaded portion of said outer surface of said outer wall of said bottle; said closure includes a closure gasket having a perimeter edge being coupled to said threaded inner surface of said annular ring; said closure gasket has a slot extending through an upper surface and a lower surface of said closure gasket which is surrounds by a flap extending upwardly from said upper surface that is biased into a closed position such that said flap defines a closed cone wherein said closure gasket is configured to inhibit the fluid condiment from passing through said aperture; said flap is urgeable into an open position such that said flap defines an open cone thereby exposing said slot wherein said flap is configured to facilitate the fluid condiment to pass through said slot for applying the fluid condiment to a food item; said closure includes a cap being hingedly coupled a top edge of said annular ring; said cap is positionable in a closed position having said cap lying on said top edge of said annular ring thereby closing said annular ring; said cap is positionable in an open position having said cap angling away from said top edge thereby opening said annular ring; and said cap has a grip which extends into a groove in an outside surface of said annular ring when said cap is in said closed position for removably

retaining said cap in said closed position.

4. The device according to claim 2, wherein: said base has an upper lip extending upwardly from an upper surface of said base which is coextensive with a perimeter of said base; said upper lip defines an upper space in said base; and said upper lip has an inwardly facing surface being threaded which threadably engages said bottom threaded portion of said outer surface of said outer wall of said bottle for attaching said base to said bottle.

5. The device according to claim 4, wherein: said base has a lower lip extending downwardly from a lower surface of said base which is coextensive with said perimeter of said base; said lower lip defines a lower space in said base; said lower lip has a greater thickness than said upper lip; said base has a hole extending through said base; and said hole is centrally located on said base.

6. The device according to claim 5, wherein said plunger comprises: a knob being positioned in said lower space in said base such that an exterior edge of said knob is spaced from an inwardly facing surface of said lower lip on said base; said knob being positioned over said hole in said base; a screw being coupled to and extending upwardly from a top surface of said knob at point being centrally located on said top surface; said screw extends through said hole in said base such that said screw extends upwardly into an interior of said bottle when said base is attached to said screw; said screw is threaded between a distal end of said screw and a point being spaced from said top surface of said knob; said screw includes a stop which extends around said screw; and said stop is spaced from said knob such that said stop is positioned in said upper space in said base thereby inhibiting said screw from being pulled through said aperture.

7. The device according to claim 6, wherein said plunger includes: a disk having an aperture extending through an upper side and a lower side of said disk; said screw extends through said aperture in said disk such that a bounding edge of said aperture in said disk threadably engages said screw; said disk travels upwardly along said screw when said screw is rotated in a first direction wherein said disk is configured to urge the fluid condiment upwardly in said bottle; and said disk travels downwardly along said screw when said screw is rotated in a second direction wherein said disk is configured to inhibit the fluid condiment from being urged upwardly in said bottle.

8. The device according to claim 7, wherein said plunger includes: a disk gasket being applied to a perimeter edge of said disk having said disk gasket extending fully around said perimeter edge; said disk gasket abuts an inside surface of said bottle; and said disk gasket is comprised of a resiliently compressible material thereby facilitating said disk gasket to form a fluid impermeable seal with said inside surface of said bottle wherein said disk gasket is configured to inhibit the fluid condiment from flowing past said disk gasket.

9. A condiment bottle device for dispensing a fluid condiment by twisting a knob, said device comprising: a bottle having a bottom end being open and a top end being open, said bottle having an outer wall extending between said bottom end and said top end which has a shoulder and a neck adjacent to said top end such that said top end has a lesser diameter than said bottom end, an outer surface of said outer wall having a bottom threaded portion adjacent to said bottom end which extends around a full circumference of said outer wall, said outer surface of said outer wall having a top threaded portion adjacent to said top end which extends around a full circumference of said outer wall, said bottle being comprised of a translucent material wherein said bottle is configured to facilitate a fluid condiment to be visible in said bottle; a closure being removably attachable to said top end of said bottle for opening or closing said top end, said closure including: an annular ring which has a threaded inner surface which threadably engages said top threaded portion of said outer surface of said outer wall of said bottle; a closure gasket having a perimeter edge being coupled to said threaded inner surface of said annular ring, said closure gasket having a slot extending through an upper surface and a lower surface of said closure gasket which is surrounded by a flap extending upwardly from said upper surface that is biased into a closed position such that said flap defines a closed cone wherein said closure gasket is configured to inhibit the fluid condiment from passing through said slot, said flap being urgeable into an open position such that

said flap defines an open cone thereby exposing said slot wherein said flap is configured to facilitate the fluid condiment to pass through said slot for applying the fluid condiment to a food item; and a cap being hingedly coupled a top edge of said annular ring, said cap being positionable in a closed position having said cap lying on said top edge of said annular ring thereby closing said annular ring, said cap being positionable in an open position having said cap angling away from said top edge thereby opening said annular ring, said cap having a grip which extends into a groove in an outside surface of said annular ring when said cap is in said closed position for removably retaining said cap in said closed position; a base being removably attachable to said bottom end of said bottle for closing said bottom end, said base having an upper lip extending upwardly from an upper surface of said base which is coextensive with a perimeter of said base, said upper lip defining an upper space in said base, said upper lip having an inwardly facing surface being threaded which threadably engages said bottom threaded portion of said outer surface of said outer wall of said bottle for attaching said base to said bottle, said base having a lower lip extending downwardly from a lower surface of said base which is coextensive with said perimeter of said base, said lower lip defining a lower space in said base, said lower lip having a greater thickness than said upper lip, said base having a hole extending through said base, said hole being centrally located on said base; and a plunger being movably attached to said base, said plunger being positioned within said bottle when said base is attached to said bottle, said plunger traveling upwardly within said bottle when said plunger is manipulated in a dispensing condition wherein said plunger is configured to urge the fluid condiment outwardly from said bottle, said plunger travelling downwardly in said bottle when said plunger is manipulated in a filling condition wherein said plunger is configured to facilitate said bottle to be filled with the fluid condiment, said plunger comprising: a knob being positioned in said lower space in said base such that an exterior edge of said knob is spaced from an inwardly facing surface of said lower lip on said base, said knob being positioned over said hole in said base; a screw being coupled to and extending upwardly from a top surface of said knob at point being centrally located on said top surface, said screw extending through said hole in said base such that said screw extends upwardly into an interior of said bottle when said base is attached to said screw, said screw being threaded between a distal end of said screw and a point being spaced from said top surface of said knob, said screw including a stop which extends around said screw, said stop being spaced from said knob such that said stop is positioned in said upper space in said base thereby inhibiting said screw from being pulled through said aperture; a disk having an aperture extending through an upper side and a lower side of said disk, said screw extending through said aperture in said disk such that a bounding edge of said aperture in said disk threadably engages said screw, said disk travelling upwardly along said screw when said screw is rotated in a first direction wherein said disk is configured to urge the fluid condiment upwardly in said bottle, said disk travelling downwardly along said screw when said screw is rotated in a second direction wherein said disk is configured to inhibit the fluid condiment from being urged upwardly in said bottle; and a disk gasket being applied to a perimeter edge of said disk having said disk gasket extending fully around said perimeter edge, said disk gasket abutting an inside surface of said bottle, said disk gasket being comprised of a resiliently compressible material thereby facilitating said disk gasket to form a fluid impermeable seal with said inside surface of said bottle wherein said disk gasket is configured to inhibit the fluid condiment from flowing past said disk gasket.