

21 Documents

Publication numbers	Title	Current assignees
CA2958344 A1	Container base including hemispherical actuating diaphragm	AMCOR
US20110017700 A1	Hot-fill container	AMCOR
WO201333544 A2	Heat-set container and mold system thereof	AMCOR
WO201333550 A2	Lightweight container base	AMCOR
US20090159556 A1	Container base structure responsive to vacuum related forces	AMCOR
CA2957823 A1	Container with folded sidewall	AMCOR
US20140061211 A1	Vacuum absorbing bases for hot-fill containers	AMCOR
WO201209416 A2	Controlled base flash forming a standing ring	AMCOR
CA2939428 A1	Vacuum base for container	AMCOR
WO201799703 A1	Method of applying top load force	AMCOR
US20120061884 A1	Mold delay for increased pressure for forming container	DISCMA
US20060006133 A1	Container base structure responsive to vacuum related forces	AMCOR
US20050196569 A1	Container base structure responsive to vacuum related forces	AMCOR
CA2964747 A1	Vacuum panel for non-round containers	AMCOR
US20040232103 A1	Container with a base structure responsive to vacuum related forces	AMCOR
US20050247664 A1	Inverting vacuum panels for a plastic container	AMCOR
US20120205341 A1	Vacuum panel with balanced vacuum and pressure response	AMCOR
WO200208068 A1	Container base structure	AMCOR
US20110217494 A1	Flexible standing ring for hot-fill container	AMCOR
US20040155008 A1	Inverting vacuum panels for a plastic container	AMCOR
US20090194546 A1	Hybrid base design	AMCOR

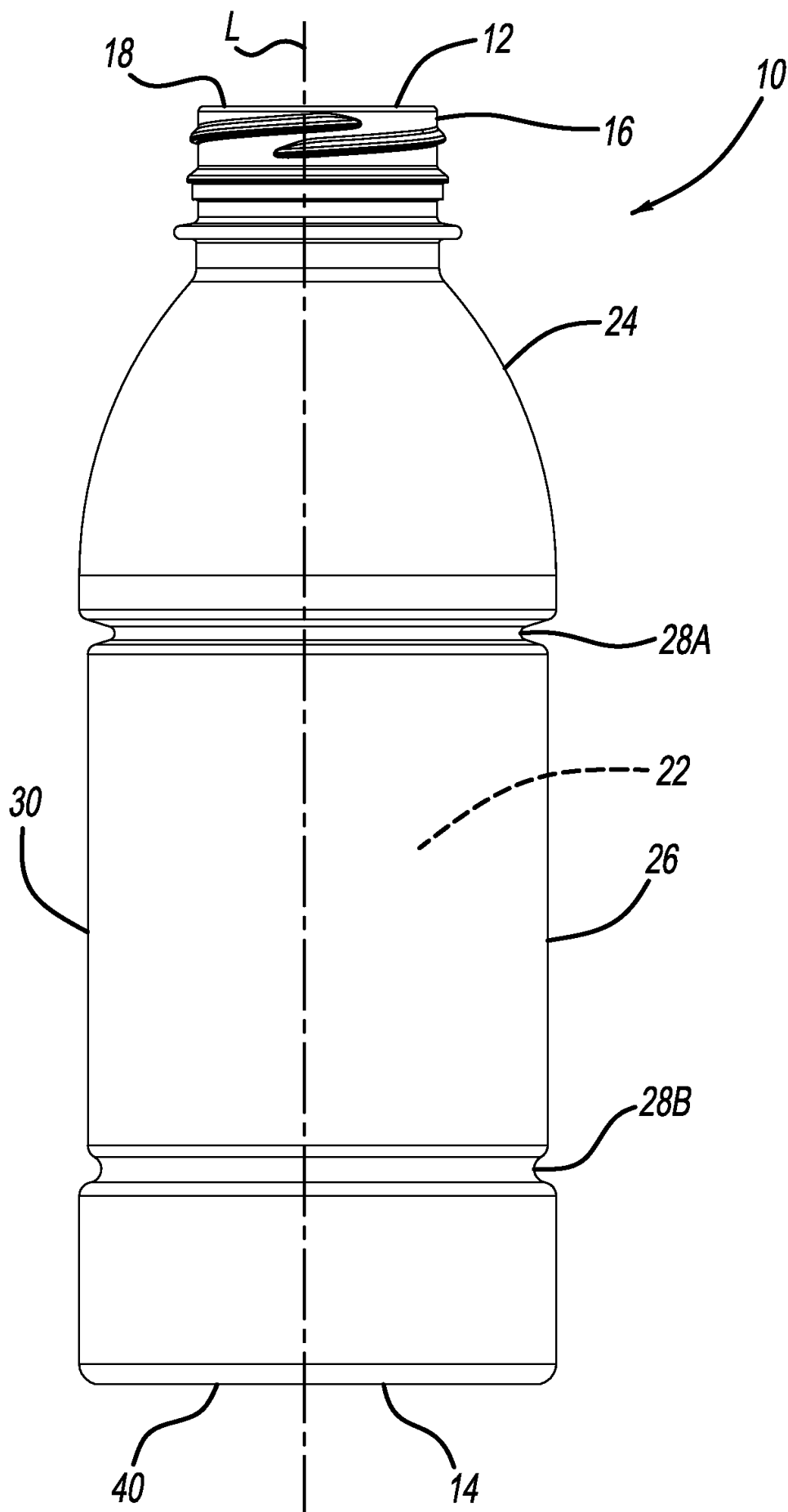
Family 1/21 - FAMPAT - ©Questel

Title

(EP3183179)

Container base including hemispherical actuating diaphragm

Images



Publication data including kind & date

CA2958344	A1	2016-02-25	CA2958344				
CA2958343	A1	2016-02-25	CA2958343				
WO2016029023	A1	2016-02-25	WO201629023				
WO2016029016	A1	2016-02-25	WO201629016				
BR112017003391	A1	2017-03-01	BR112017003391				
BR112017003390	A1	2017-03-01	BR112017003390				
EP3183179	A1	2017-06-28	EP3183179				
EP3183177	A1	2017-06-28	EP3183177				
MX2017002165	A	2017-08-15	MX2017002165				
MX2017002163	A	2017-08-15	MX2017002163				
US2017267392	A1	2017-09-21	US20170267392				
US2017267391	A1	2017-09-21	US20170267391				
BR112017003391	A2	2017-11-28	BR112017003391				
BR112017003390	A2	2017-11-28	BR112017003390				

Abstract

(EP3183179)

A container including a finish defining an opening at a first end of the container that provides access to an internal volume defined by the container. A base portion of the container includes a diaphragm that is concave relative to an exterior of the container. The diaphragm extends from a standing surface of the container to a center push-up portion of the base portion. The standing surface is at a second end of the container opposite to the first end. The diaphragm is configured to move from an as-blown first configuration to a second configuration in which the diaphragm is closer to the first end as compared to the first configuration in order to reduce residual vacuum within the container. The diaphragm is generally hemispherical in cross-section when in the second configuration.

Inventors

WOLOSZYK MARK

DOLE OMKAR

DOWNING DAVID

MAKI KIRK EDWARD

PHILIP BRADLEY S

STELZER JAMES

MAST LUKE A

STEIH RICHARD J

Latest standardized assignees - inventors removed

AMCOR

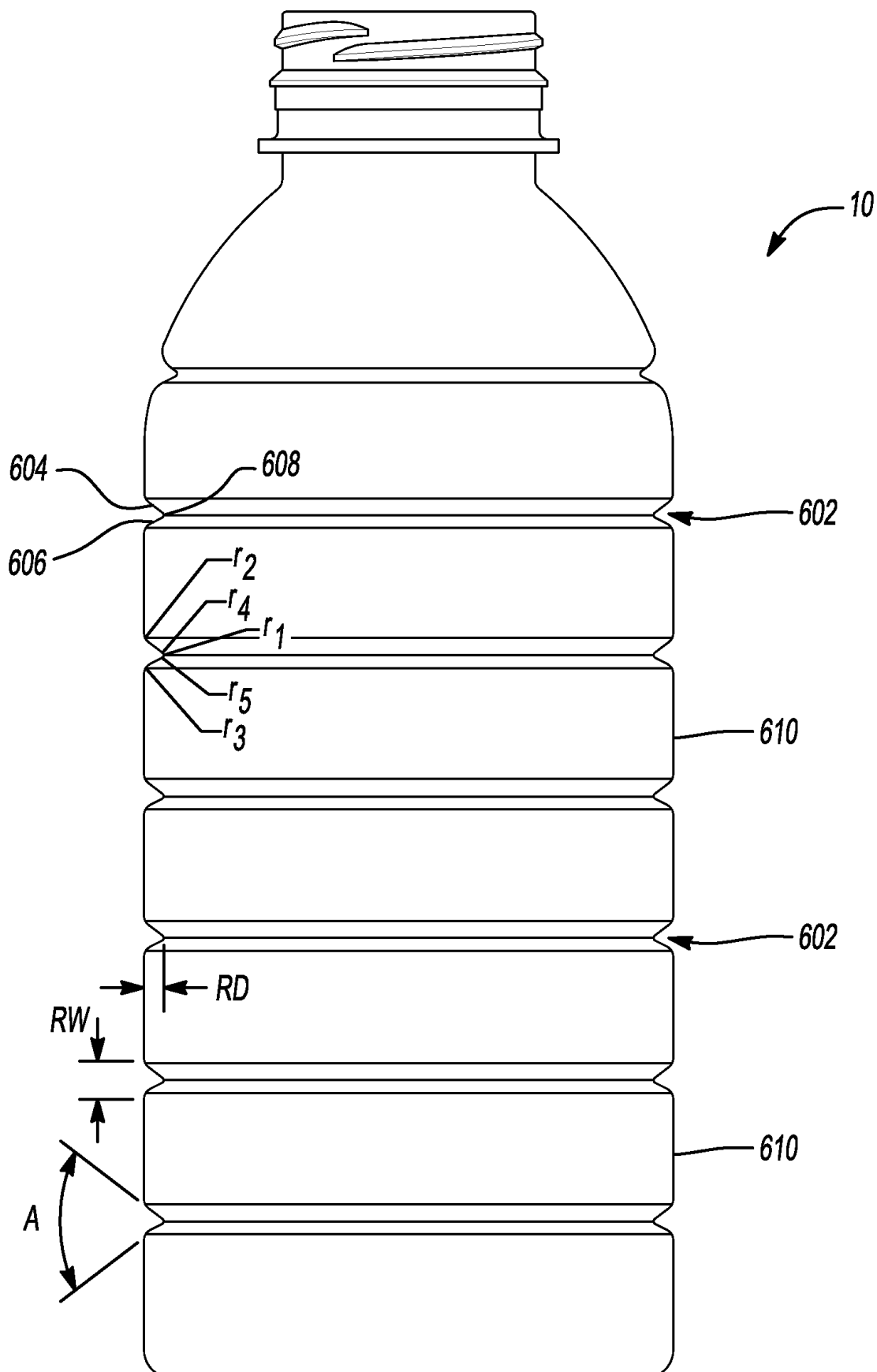
Family 2/21 - FAMPAT - ©Questel

Title

(EP3066010)

Hot-fill container

Images

**Publication data including kind & date**

US2011017700	A1	2011-01-27	US20110017700
WO2011014759	A2	2011-02-03	WO201114759
CA2768822	A1	2011-02-03	CA2768822
WO2011014759	A3	2011-06-03	WO201114759
AU2010278853			



	A1	2012-02-09	AU2010278853				
ECSP12011697	A	2012-03-30	EC201211697				
MX2012001085	A	2012-05-22	MX2012001085				
DOP2012000023	A	2012-05-31	DO201200023				
EP2459456	A2	2012-06-06	EP2459456				
CO6491100	A2	2012-07-31	CO6491100				
PE11892012	A1	2012-09-06	PE201201189				
CN102741126	A	2012-10-17	CN102741126				
BR112012002288	A1	2012-10-30	BR112012002288				
EP2459456	A4	2013-01-09	EP2459456				
JP2013500909	A	2013-01-10	JP2013500909				
US8616395	B2	2013-12-31	US8616395				
AU2010278853	B2	2014-05-15	AU2010278853				
CA2925871	A1	2015-05-14	CA2925871				
WO2015069620	A1	2015-05-14	WO2015069620				
JP5732458	B2	2015-06-10	JP5732458				
CN102741126	B	2016-02-24	CN102741126B				
BR112016010249	A1	2016-05-17	BR112016010249				
BR112016010250	A1	2016-05-24	BR112016010250				
BR112012002288	A2	2016-06-14	BR112012002288				
EP3066010	A1	2016-09-14	EP3066010				
MX2016003964	A	2016-10-21	MX2016003964				
JP2016534950	A	2016-11-10	JP2016534950				
EP3066010	A4	2017-05-17	EP3066010				
BR112016010250	A2	2017-08-08	BR112016010250				
BR112016010249	A2	2017-08-08	BR112016010249				
CA2768822	C	2017-10-17	CA2768822				
WO2018005816	A1	2018-01-04	WO201805816				

Abstract

(EP3066010)

A plastic container including an upper portion, a base, a plurality of surface features, and a substantially cylindrical portion. The upper portion has a mouth defining an opening into the container. The base is movable to accommodate vacuum forces generated within the container thereby decreasing the volume of the container. The plurality of surface features are included with the base and are configured to accommodate vacuum forces. The substantially cylindrical portion extends between the upper portion and the base.

Inventors

PATCHEAK TERRY D

DOWNING DAVID

BEUERLE FREDERICK C

STRASSER WALTER J

HOWE CHRISTOPHER

MAST LUKE A

Latest standardized assignees - inventors removed

AMCOR

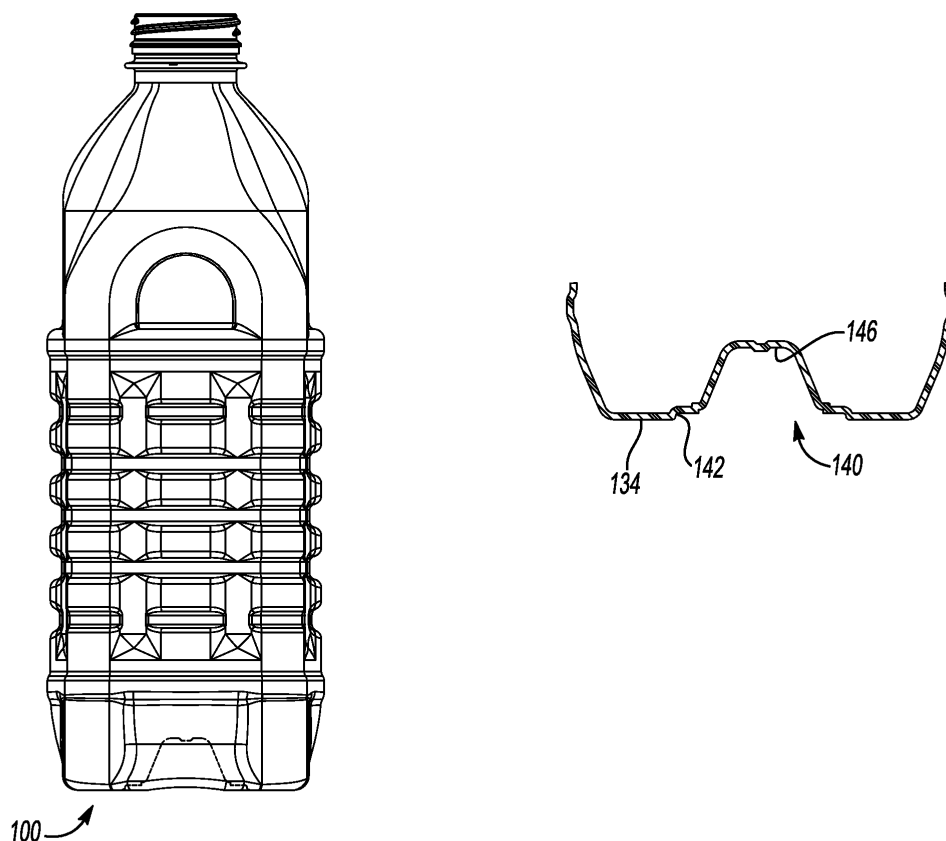
Family 3/21 - FAMPAT - ©Questel

Title

(WO201333544)

Heat-set container and mold system thereof

Images



Publication data including kind & date

WO2013033544	A2	2013-03-07	WO201333544
WO2013033544	A3	2013-04-18	WO201333544
CO6890083	A2	2014-03-10	CO6890083
BR112014005043	A1	2014-05-20	BR112014005043
MX2014002183	A	2014-05-30	MX2014002183
US2014190927	A1	2014-07-10	US20140190927
PE18612014	A1	2014-12-01	PE201401861
BR112014005043	A2	2017-03-21	BR112014005043
US9833938	B2	2017-12-05	US9833938



Abstract

(WO201333544)

A heat-set container that defines a longitudinal axis is disclosed that includes a finish and a sidewall portion extending from the finish. The container also includes a base portion extending from the sidewall portion and enclosing said sidewall portion to form a volume therein for retaining a commodity. The base portion has a plurality of contact surfaces for supporting the container. The plurality of contact surfaces are spaced away from each other about the longitudinal axis. Also, the container includes a central pushup portion disposed in the base portion and extending generally toward the finish. The central pushup portion is substantially centered on the longitudinal axis, and the central pushup portion is moveable in response to internal vacuum pressure to decrease the volume.

Inventors

LANE MICHAEL T

PAEGEL WALT

Latest standardized assignees - inventors removed

AMCOR

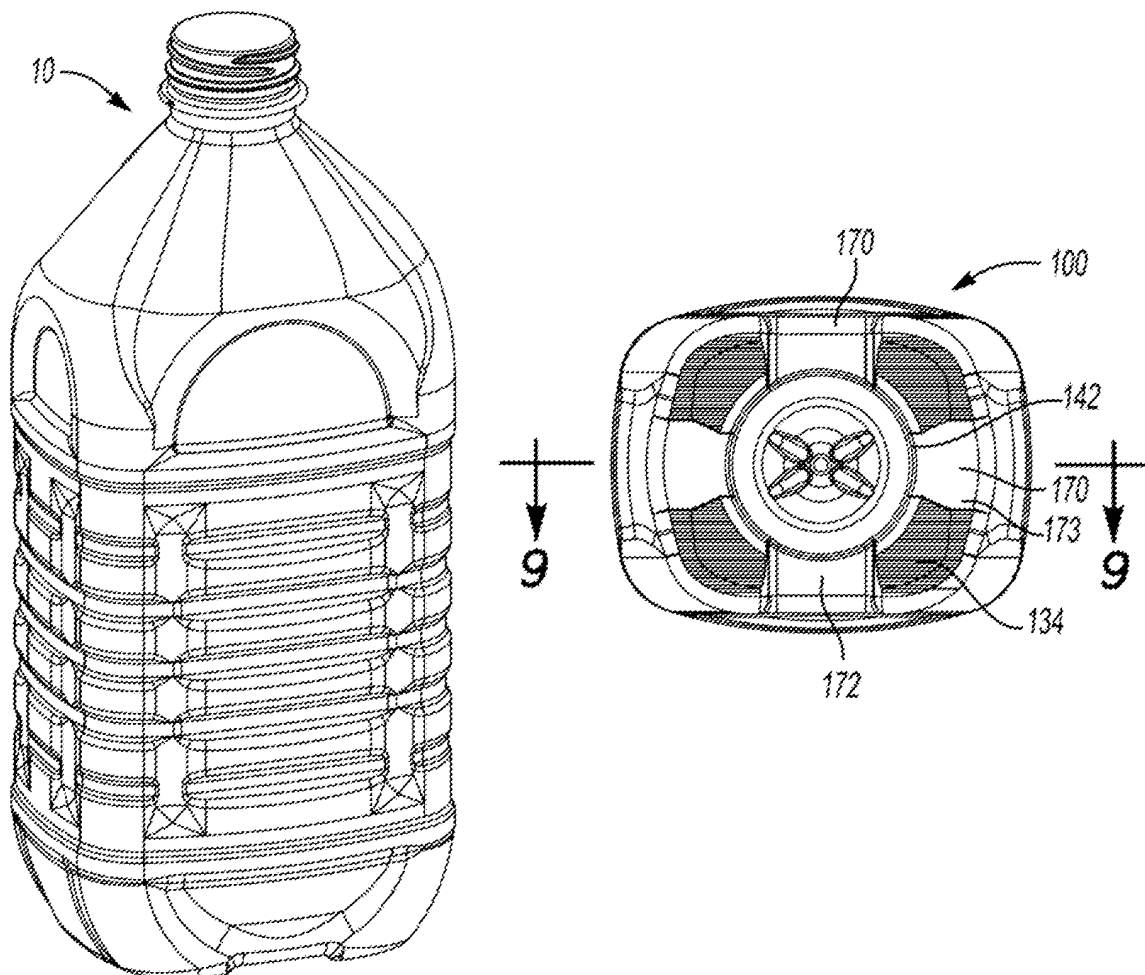
Family 4/21 - FAMPAT - ©Questel

Title

(EP3183178)

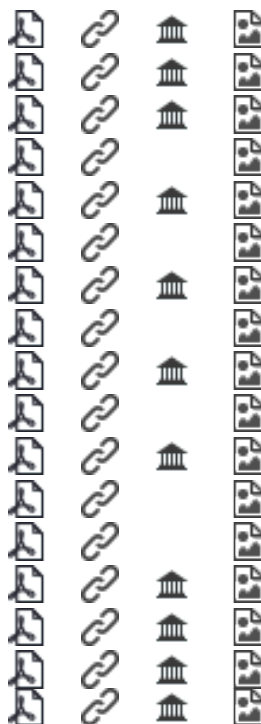
Lightweight container base

Images



Publication data including kind & date

WO2013033550	A2	2013-03-07	WO201333550
WO2013033550	A3	2013-06-13	WO201333550
WO2014036516	A1	2014-03-06	WO201436516
CO6890084	A2	2014-03-10	CO6890084
BR112014005038	A1	2014-05-20	BR112014005038
MX2014002184	A	2014-05-30	MX2014002184
US2014197127	A1	2014-07-17	US20140197127
PE19252014	A1	2014-12-05	PE201401925
US2014360972	A1	2014-12-11	US20140360972
CO7220327	A2	2015-03-20	CO7220327
BR112015004526	A1	2015-04-22	BR112015004526
PE05052015	A1	2015-04-29	PE201500505
MX2015002449	A	2015-06-22	MX2015002449
US2015225109	A1	2015-08-13	US20150225109
WO2016028393	A1	2016-02-25	WO201628393
US9422076	B2	2016-08-23	US9422076



BR112017003563	A1	2017-03-07	BR112017003563				
BR112014005038	A2	2017-03-21	BR112014005038				
US2017096249	A1	2017-04-06	US20170096249				
US9617029	B2	2017-04-11	US9617029				
US2017158371	A1	2017-06-08	US20170158371				
EP3183178	A1	2017-06-28	EP3183178				
PE07312017	A1	2017-07-04	PE201700731				
BR112015004526	A2	2017-07-04	BR112015004526				
US9694930	B2	2017-07-04	US9694930				
MX2017002059	A	2017-08-14	MX2017002059				
SV2017005388	A	2017-08-18	SV201705388				
US2017283108	A1	2017-10-05	US20170283108				
BR112017003563	A2	2017-12-05	BR112017003563				

Abstract

(EP3183178)

A container defining a longitudinal axis and a transverse direction that is transverse with respect to the longitudinal axis. The container includes a finish and a sidewall portion extending from the finish. A plurality of ribs are defined by the sidewall. A base portion extends from the sidewall portion and encloses the sidewall portion to form a volume therein for retaining a commodity. The base portion has a contact surface for supporting the container. A plurality of straps extend radially along the base portion away from the longitudinal axis in the transverse direction, each one of the straps defines a strap surface that is closer to the finish than the contact surface. The plurality of ribs and the base portion are configured to place the container in a state of hydraulic charge-up when top load is applied to the container after the container is filled.

Inventors

LANE MICHAEL T

PAEGEL WALTER

HAN PEIDONG

Latest standardized assignees - inventors removed

AMCOR

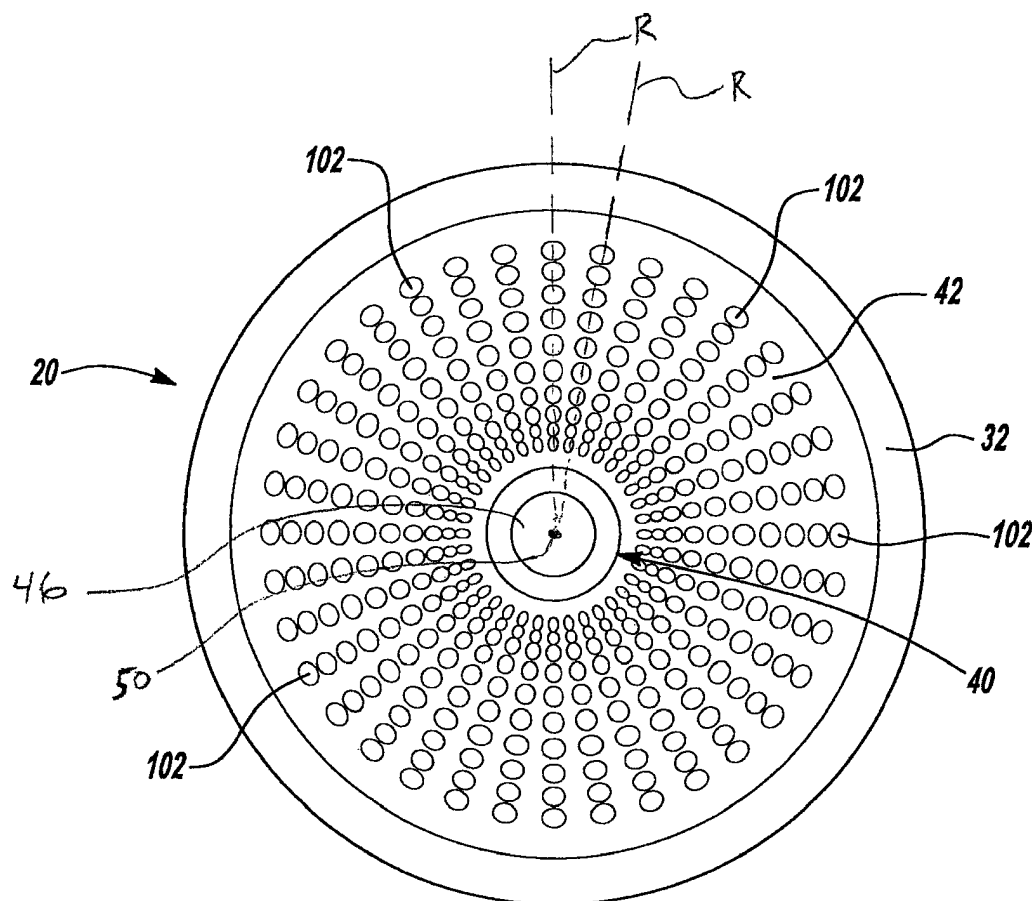
Family 5/21 - FAMPAT - ©Questel

Title

(EP2358602)

Container base structure responsive to vacuum related forces

Images



Publication data including kind & date

US2009159556	A1	2009-06-25	US20090159556
WO2010056517	A1	2010-05-20	WO201056517
CA2742494	A1	2010-05-20	CA2742494
AU2009314369	A1	2010-05-20	AU2009314369
MX2011004981	A	2011-06-16	MX2011004981
EP2358602	A1	2011-08-24	EP2358602
CN102216162	A	2011-10-12	CN102216162
EP2358602	A4	2012-03-28	EP2358602
JP2012509226	A	2012-04-19	JP2012509226
IN4379/DELNP/2011	A	2012-04-27	IN2011DN04379
US8276774	B2	2012-10-02	US8276774
US2013001235	A1	2013-01-03	US20130001235
NZ592546	A	2013-08-30	NZ-592546
CN102216162	B	2014-04-09	CN102216162B
AU2009314369	B2	2014-05-15	AU2009314369
JP5571095	B2	2014-08-13	JP5571095
US8833579	B2	2014-09-16	US8833579
EP2358602	B1	2016-04-27	EP2358602
BRPI0921092	A1	2016-06-07	BR200921092
BRPI0921092	A2	2016-07-19	BR200921092
ES2580170	T3	2016-08-19	ES2580170
CA2742494	C	2017-08-08	CA2742494



Abstract

(EP2358602)

A plastic container having a base portion adapted for vacuum pressure absorption. The base portion including a contact ring that supports the container, an upstanding wall, and a central portion. The upstanding wall being adjacent to and generally circumscribing the contact ring. The central portion defined in at least part by a pushup and an inversion ring that generally circumscribes the pushup. The pushup and the inversion ring being moveable to accommodate vacuum related forces generated within the container.

Inventors

PATCHEAK TERRY D

DOWNING DAVID

LISCH G DAVID

SILVERS KERRY W

VAILLIENCOURT DWAYNE G

PIESZCHALA BRIAN L

STEIH RICHARD J

Latest standardized assignees - inventors removed

AMCOR

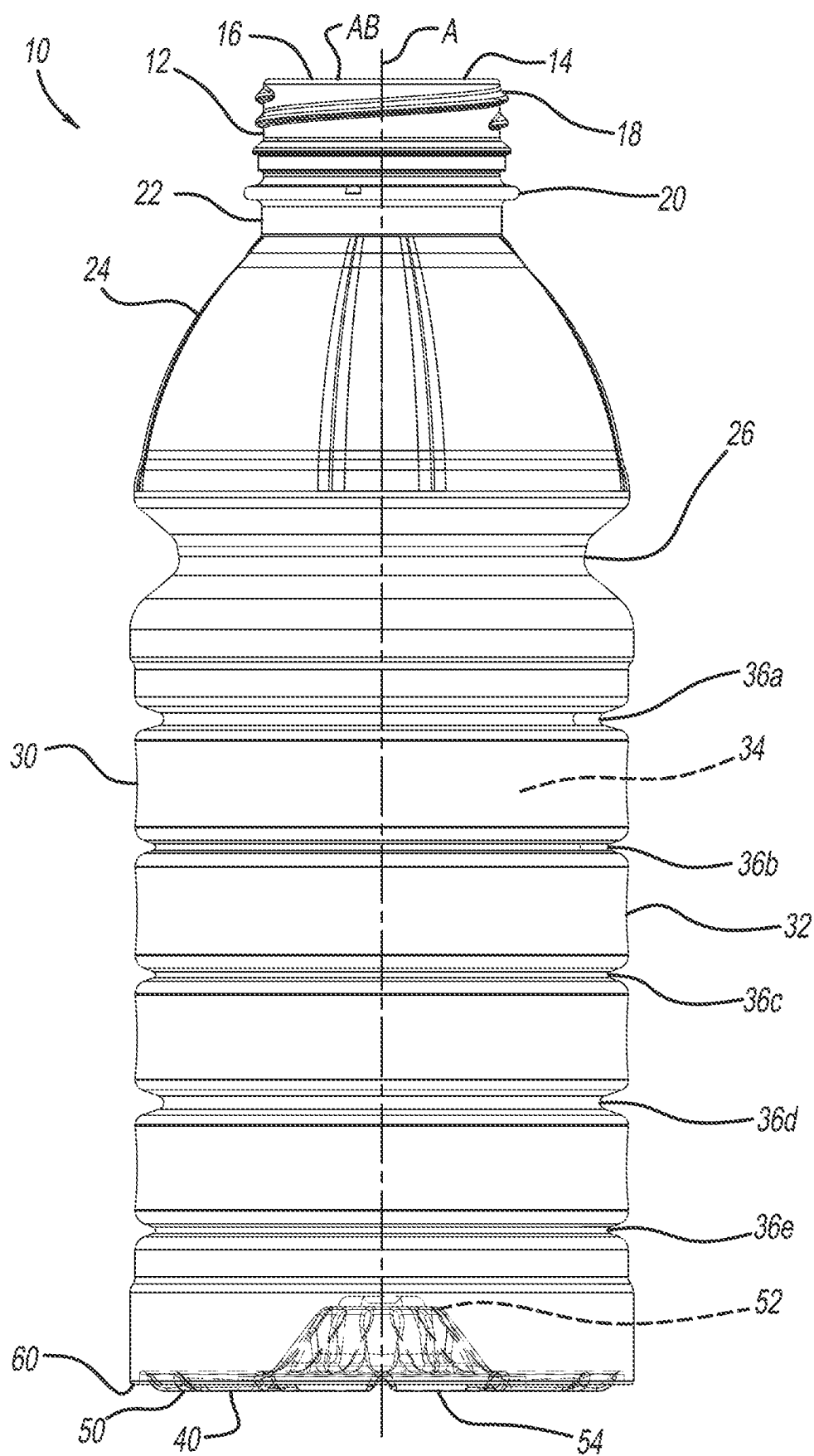
Family 6/21 - FAMPAT - ©Questel

Title

(EP3183180)

Container with folded sidewall

Images



WO2016028302	A1	2016-02-25	WO201628302				
BR112017003569	A1	2017-03-07	BR112017003569				
EP3183180	A1	2017-06-28	EP3183180				
MX2017002060	A	2017-08-14	MX2017002060				
US2017267394	A1	2017-09-21	US20170267394				
BR112017003569	A2	2017-12-05	BR112017003569				

Abstract

(EP3183180)

A blow-molded container including a finish and a base portion. The finish defines an opening at a first end of the container that provides access to an internal volume defined by the container. The base portion is at a second end of the container opposite to the first end. The base portion includes a fold proximate to a sidewall of the container.

Inventors

LANE MICHAEL T

Latest standardized assignees - inventors removed

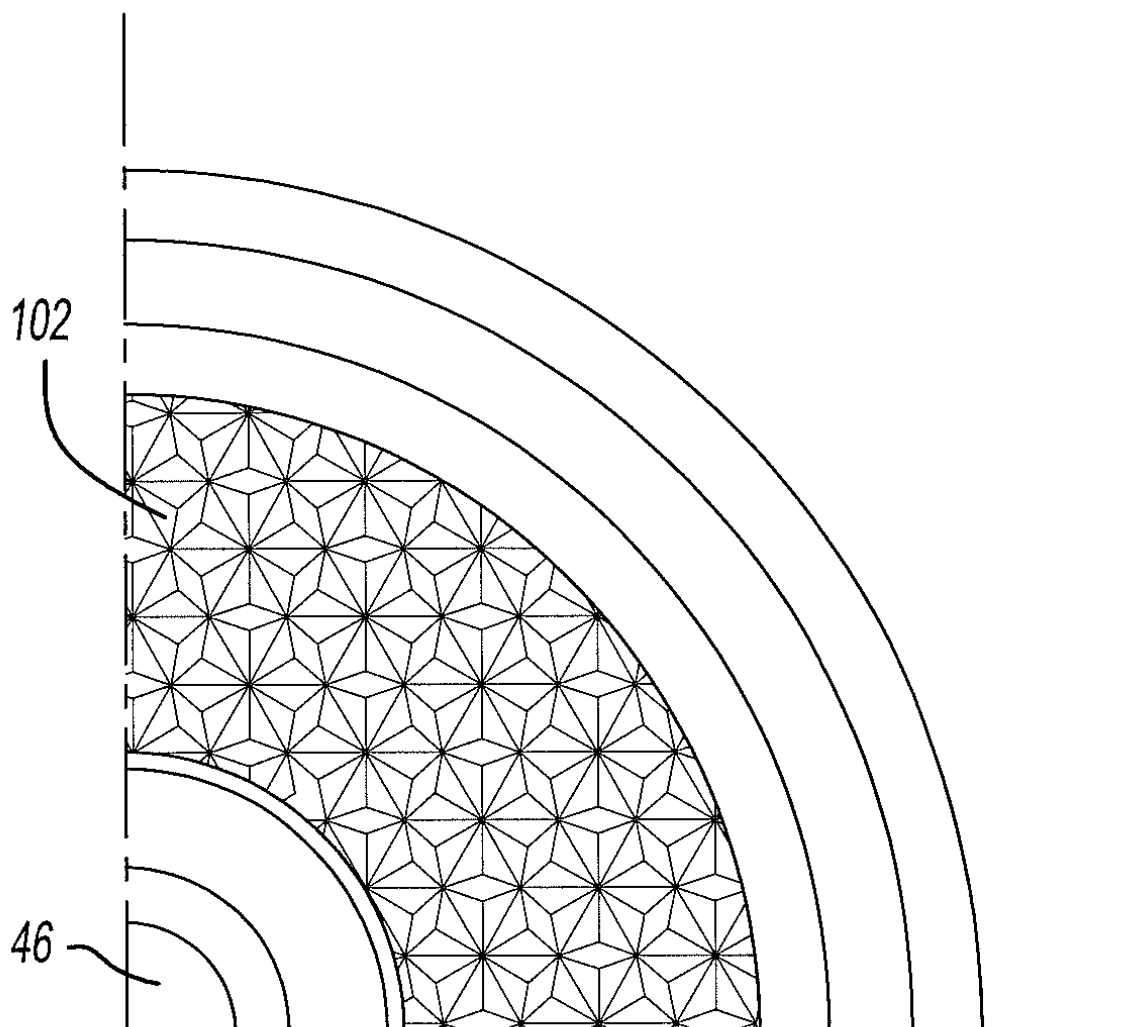
AMCOR

Family 7/21 - FAMPAT - ©Questel

Title

(US9751679)

Vacuum absorbing bases for hot-fill containers

Images

US2014061211	A1	2014-03-06	US20140061211
US9394072	B2	2016-07-19	US9394072
US2016311599	A1	2016-10-27	US20160311599
US9751679	B2	2017-09-05	US9751679

**Abstract**

(US9751679)

A polymeric container including an upper portion defining an opening to an interior volume of the container. A base is movable to accommodate vacuum forces generated within the container, thereby decreasing the volume of the container. A substantially cylindrical sidewall extends between the upper portion and the base. A rigid, central pushup portion of the base is at an axial center of the base. A central longitudinal axis of the container extends through a center of the central pushup portion. A flexible diaphragm of the base extends outward from the central pushup portion.

Inventors

STELZER JAMES

LANE MICHAEL T

Latest standardized assignees - inventors removed

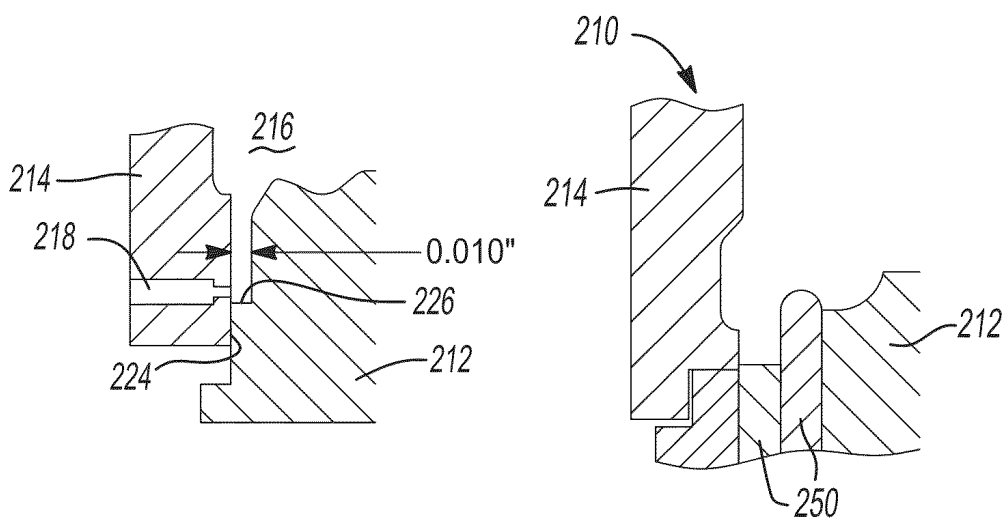
AMCOR

Family 8/21 - FAMPAT - ©Questel

Title

(WO201209416)

Controlled base flash forming a standing ring

Images**Publication data including kind & date**

WO2012009416	A2	2012-01-19	WO201209416
US2012012592	A1	2012-01-19	US20120012592
WO2012009416	A3	2012-03-29	WO201209416
MX2013000557	A	2013-05-30	MX2013000557
CO6680633	A2	2013-05-31	CO6680633
US2014212537	A1	2014-07-31	US20140212537
US9254604	B2	2016-02-09	US9254604

**Abstract**

(WO201209416)

A blow-molded plastic container comprising a base portion having a flexible standing ring radially extending therefrom. The flexible standing ring is disposed about a lowest most portion of the container and operable to support the container on a surface. The flexible standing ring defines an annular groove thereabout that collapses in response to internal vacuum forces and/or external loading forces. The container further comprises a body portion that extends from an upper portion to the base, such that the upper portion, the body portion and the base cooperate to define a receptacle chamber within the container into which product can be filled.

Inventors

LISCH GEORGE DAVID

PATCHEAK TERRY D

MAKI KIRK EDWARD

HOWE CHRISTOPHER

Latest standardized assignees - inventors removed

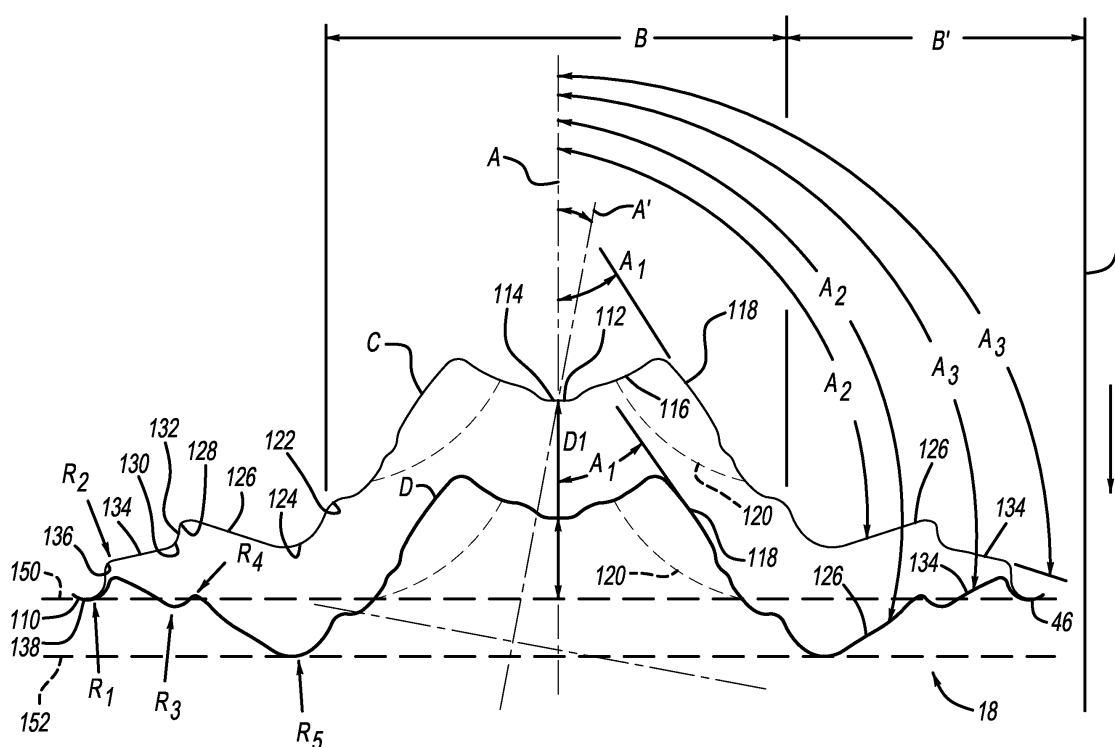
AMCOR

Family 9/21 - FAMPAT - ©Questel

Title

(EP3107810)

Vacuum base for container

Images**Publication data including kind & date**

CA2939428	A1	2015-08-27	CA2939428
WO2015126404	A1	2015-08-27	WO2015126404
BR112016018905	A1	2016-08-30	BR112016018905
EP3107810	A1	2016-12-28	EP3107810
JP2017506201	A	2017-03-02	JP2017506201



US2017057724	A1	2017-03-02	US20170057724
MX2016010618	A	2017-04-27	MX2016010618
BR112016018905	A2	2017-08-15	BR112016018905
EP3107810	A4	2017-09-13	EP3107810
US9834359	B2	2017-12-05	US9834359

**Abstract**

(EP3107810)

A container including a finish, a shoulder portion, a sidewall, and a base portion. The finish defines an opening. The shoulder portion extends from the finish. The sidewall extends from the shoulder portion and defines a volume of the container. The base portion is at an end of the sidewall opposite to the shoulder portion. The base portion includes a primary standing ring and a secondary standing ring. The base portion is movable from an as-blown position to an expanded position and from the expanded position to a retracted position. In the as-blown and retracted positions the primary standing ring is configured to support the container upright. In the expanded position the secondary standing ring is configured to support the container upright.

Inventors

BATES PETER A

STEIH RICHARD J

Latest standardized assignees - inventors removed

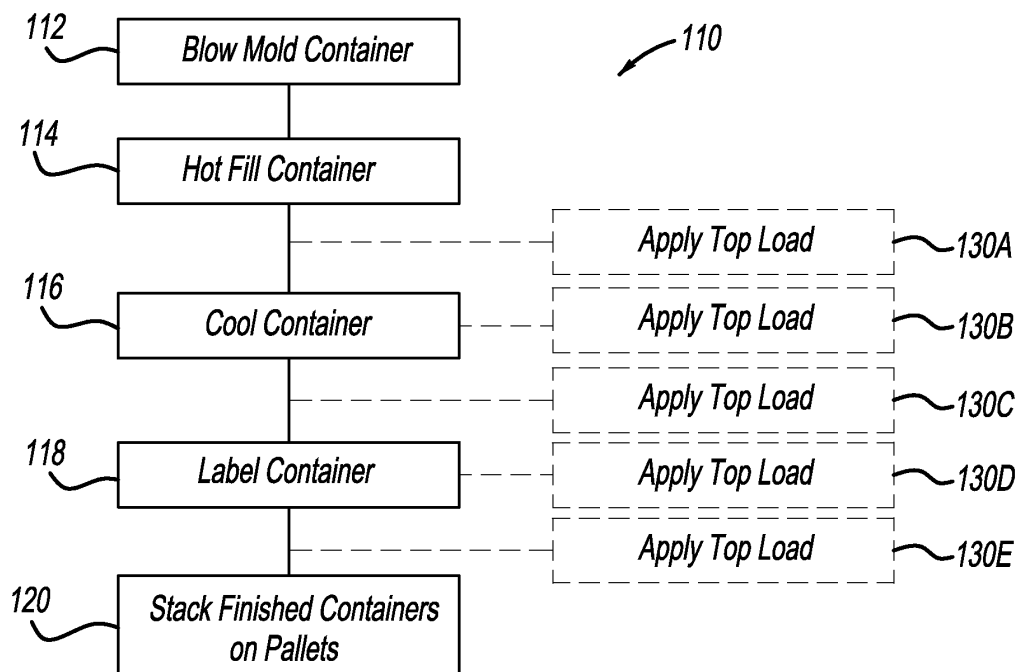
AMCOR

Family 10/21 - FAMPAT - ©Questel

Title

(WO201799703)

Method of applying top load force

Images**FIG - 6**

WO2017099703

A1 2017-06-15 WO201799703

Abstract

(WO201799703)

A method for manufacturing and filling a container. The method includes blow molding the container from a preform. The container is then hot filled and cooled. After cooling, the container is labeled. A top load force is applied to the container at least one of: before cooling the container; during cooling of the container; after cooling the container and before labeling the container; during labeling of the container; and after labeling the container in order to reverse any dents in the container formed during the method of manufacturing and filling.

Inventors

LANE MICHAEL T

Latest standardized assignees - inventors removed

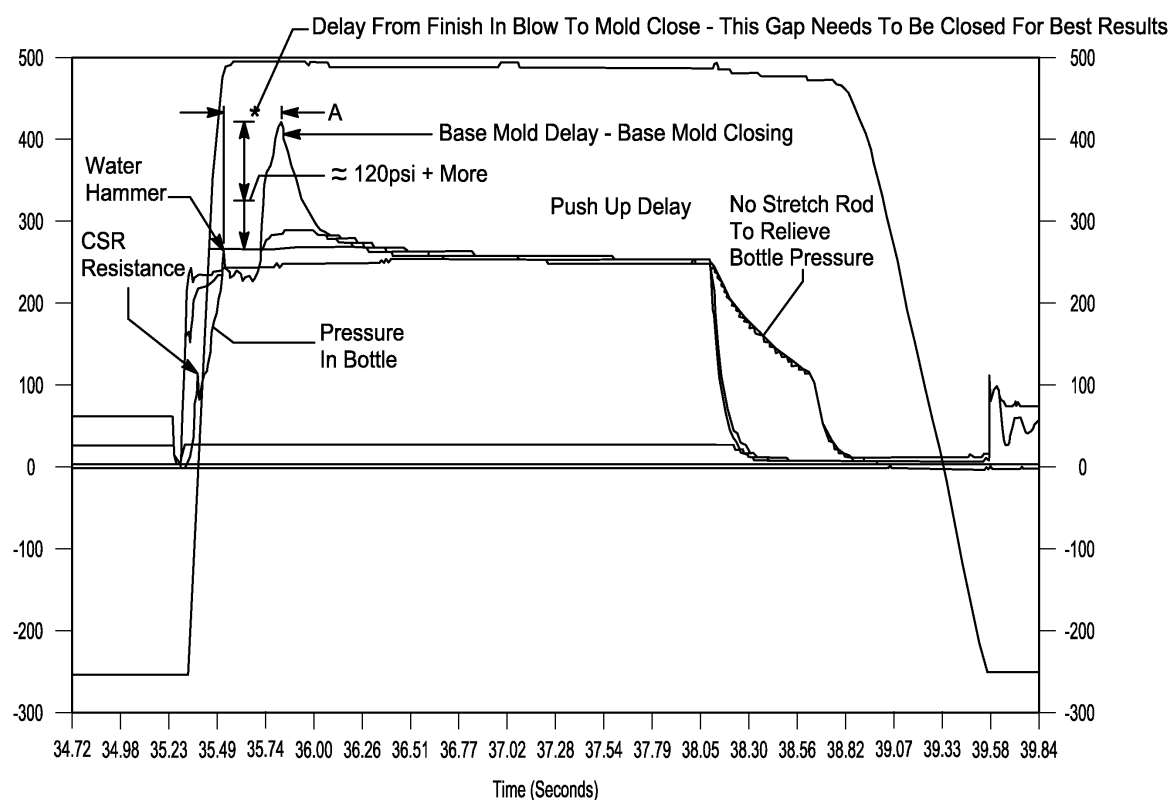
AMCOR

Family 11/21 - FAMPAT - ©Questel

Title

(EP2616337)

Mold delay for increased pressure for forming container

Images**Publication data including kind & date**

US2012061884	A1	2012-03-15	US20120061884
WO2012037054	A2	2012-03-22	WO201237054
WO2012037054	A3	2012-06-07	WO201237054
AR082969	A1	2013-01-23	AR--82969
AU2011302326	A1	2013-04-18	AU2011302326
MX2013002887	A	2013-06-28	MX2013002887
CN103201175	A	2013-07-10	CN103201175
EP2616337	A2	2013-07-24	EP2616337
JP2013541441	A	2013-11-14	JP2013541441
BR112013006014	A1	2013-12-31	BR112013006014



US8834778	B2	2014-09-16	US8834778				
RU2013116974	A	2014-10-20	RU2013116974				
IN3008/DELNP/2013	A	2014-11-14	IN2013DN03008				
AU2011302326	B2	2015-09-17	AU2011302326				
RU2565268	C2	2015-10-20	RU2565268				
JP5819968	B2	2015-11-24	JP5819968				
CN103201175	B	2015-12-16	CN103201175B				
EP2616337	A4	2017-03-08	EP2616337				

Abstract

(EP2616337)

A method of fluid forming a container comprising positioning a plastic preform into a mold cavity, wherein the mold cavity defines a first configuration and a first volume. The method further includes injecting a fluid within the plastic preform at a first fluid pressure urging the plastic preform into an expanded shape. The method includes actuating the mold cavity into a second configuration and a second volume, whereby the second volume is smaller than the first volume, thereby resulting in a second fluid pressure within the plastic preform being greater than the first fluid pressure.

Inventors

MAKI KIRK EDWARD

LISCH GEORGE DAVID

Latest standardized assignees - inventors removed

DISCMA

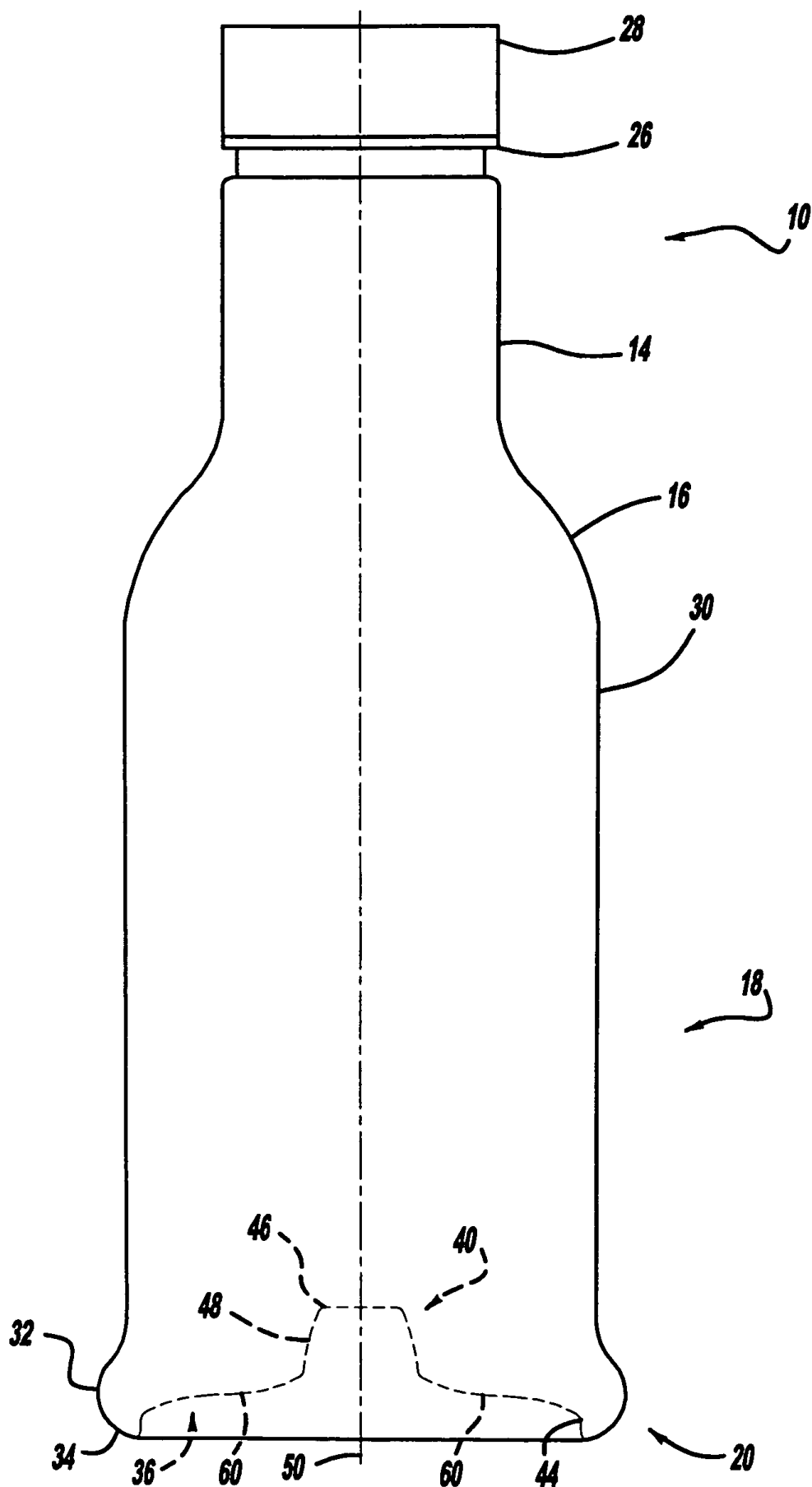
Family 12/21 - FAMPAT - ©Questel

Title

(US7451886)

Container base structure responsive to vacuum related forces

Images



Publication data including kind & date

[US2006006133](#)

A1 2006-01-12

US20060006133

[US7451886](#)

B2 2008-11-18

US7451886



Abstract

(US7451886)

A plastic container having a base portion adapted for vacuum pressure absorption. The base portion including a contact ring that supports the container, an upstanding wall, and a central portion. The upstanding wall being adjacent to and generally circumscribing the contact ring. The central portion defined in at least part by a pushup and an inversion ring that generally circumscribes the pushup. The pushup having a generally truncated cone shape in cross section and the inversion ring having a generally S shaped geometry in cross section. The pushup and the inversion ring being moveable to accommodate vacuum related forces generated within the container.

Inventors

LISCH G DAVID

SILVERS KERRY W

VAILLIENCOURT DWAYNE G

PIESZCHALA BRIAN L

STEIH RICHARD J

Latest standardized assignees - inventors removed

AMCOR

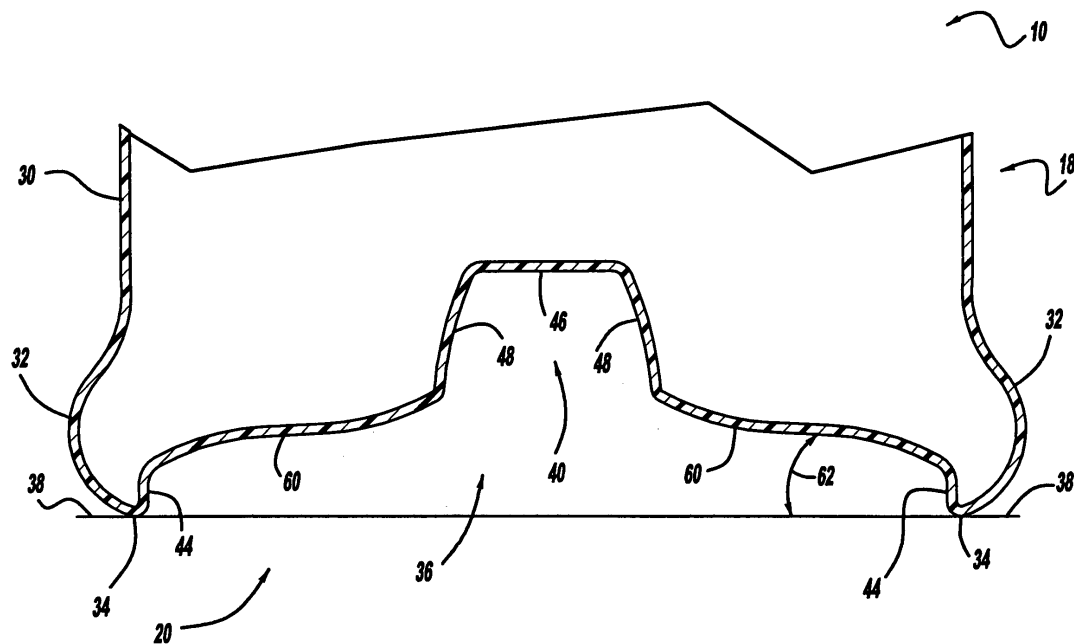
Family 13/21 - FAMPAT - ©Questel

Title

(EP1893496)

Container base structure responsive to vacuum related forces

Images



Publication data including kind & date

US2005196569	A1	2005-09-08	US20050196569
WO2006118584	A1	2006-11-09	WO2006118584
CA2606421	A1	2006-11-09	CA2606421
AU2005331254	A1	2006-11-09	AU2005331254
US7150372	B2	2006-12-19	US7150372
MX2007013503	A	2008-01-21	MX2007013503
KR20080012904	A	2008-02-12	KR20080012904
EP1893496	A1	2008-03-05	EP1893496



CN101198525	A	2008-06-11	CN101198525				
IN8300/DELNP/2007	A	2008-07-04	IN2007DN08300				
JP2008539141	A	2008-11-13	JP2008539141				
BRPI0520001	A2	2009-04-07	BR200520001				
BRPI0520001	A2	2009-04-07	BRPI0520001				
RU2007144105	A	2009-06-10	RU2007144105				
RU2381968	C2	2010-02-20	RU2381968				
CN101198525	B	2010-06-16	CN101198525B				
NZ563637	A	2010-06-25	NZ-563637				
EP1893496	B1	2010-08-04	EP1893496				
AT476368	T	2010-08-15	ATE476368				
DE602005022781	D1	2010-09-16	DE602005022781				
ES2346668	T3	2010-10-19	ES2346668				
DK1893496	T3	2010-11-08	DK1893496T				
SI1893496	T1	2010-12-31	SI1893496T				
HK1120248	A1	2011-02-25	HK1120248				
JP2011098780	A	2011-05-19	JP2011098780				
JP4700728	B2	2011-06-15	JP4700728				
AU2005331254	B2	2012-01-19	AU2005331254				
KR101205287	B1	2012-11-27	KR101205287				
CA2606421	C	2014-01-21	CA2606421				
JP5689302	B2	2015-03-25	JP5689302				
BRPI0520001	B1	2017-12-12	BRPI0520001				

Abstract

(EP1893496)

A plastic container having a base portion adapted for vacuum pressure absorption. The base portion including a contact ring that supports the container, an upstanding wall, and a central portion. The upstanding wall being adjacent to and generally circumscribing the contact ring. The central portion defined in at least part by a pushup and an inversion ring that generally circumscribes the pushup. The pushup and the inversion ring being moveable to accommodate vacuum related forces generated within the container.

Inventors

LISCH G DAVID

SILVERS KERRY W

VAILLIENCOURT DWAYNE G

PIESZCHALA BRIAN L

STEIH RICHARD J

Latest standardized assignees - inventors removed

AMCOR

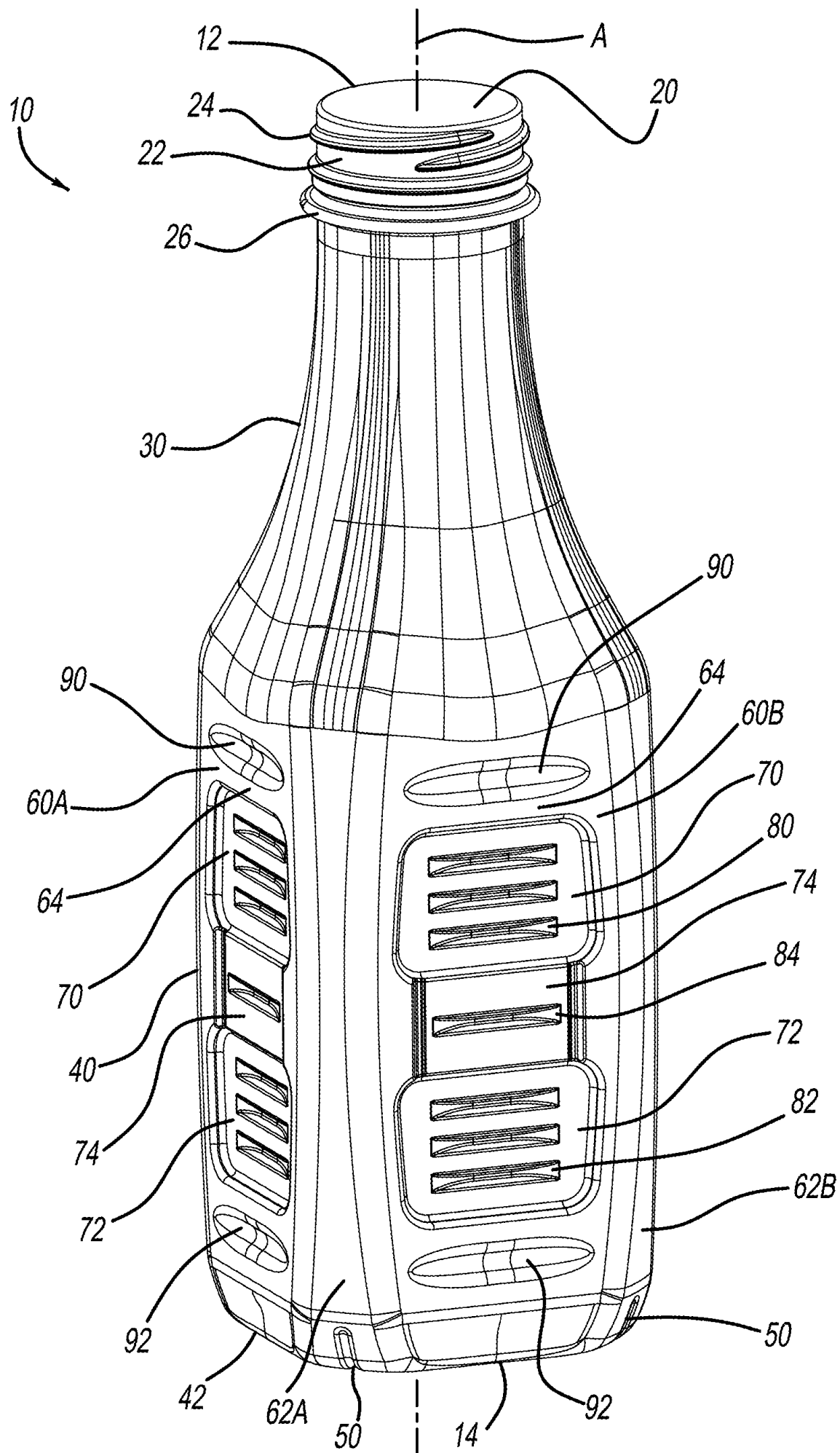
Family 14/21 - FAMPAT - ©Questel

Title

(WO201664446)

Vacuum panel for non-round containers

Images



Publication data including kind & date

CA2964747	A1	2016-04-28	CA2964747
CA2964740	A1	2016-04-28	CA2964740
WO2016064392	A1	2016-04-28	WO201664392
WO2016064446	A1	2016-04-28	WO201664446
US2017349349	A1	2017-12-07	US20170349349

**Abstract**

(WO201664446)

A container including at least one sidewall. The sidewall includes first and second vacuum panels, and a plurality of first and second ribs. The first and second vacuum panels are recessed beneath an outer surface of the sidewall. The second vacuum panel is spaced apart from, and vertically aligned with, the first vacuum panel. The plurality of first ribs protrude outward from the first vacuum panel. The plurality of second ribs protrude outward from the second vacuum panel.

Inventors

STELZER JAMES
JOSHI ROHIT V
ZENG GUIZHANG
GANNON DWAYNE

Latest standardized assignees - inventors removed

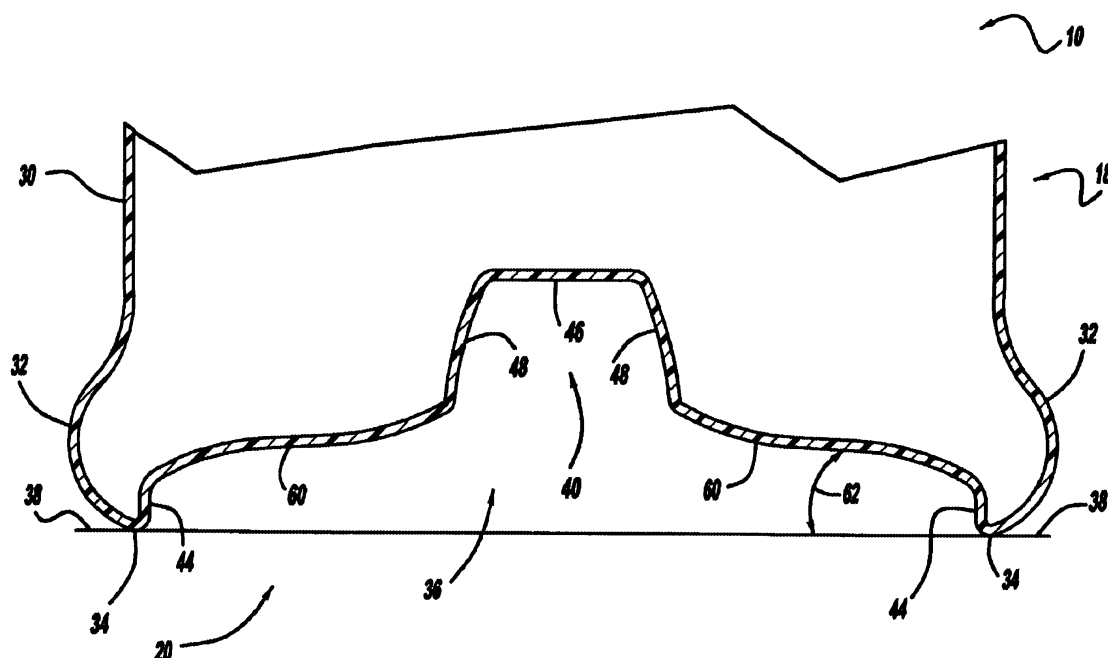
AMCOR

Family 15/21 - FAMPAT - ©Questel

Title

(EP1633640)

Container with a base structure responsive to vacuum related forces

Images**Publication data including kind & date**

US2004232103	A1	2004-11-25	US20040232103
WO2004106175	A1	2004-12-09	WO2004106175
CA2526708	A1	2004-12-09	CA2526708
AU2004242590	A1	2004-12-09	AU2004242590
US6942116	B2	2005-09-13	US6942116



EP1633640	A1	2006-03-15	EP1633640				
KR20060031606	A	2006-04-12	KR20060031606				
RU2005140293	A	2006-05-10	RU2005140293				
MXPA05012633	A	2006-05-25	MX2005PA012633				
BRPI0410631	A	2006-06-13	BR200410631				
BRPI0410631	A1	2006-06-13	BRPI0410631				
CN1822989	A	2006-08-23	CN1822989				
JP2006528116	A	2006-12-14	JP2006528116				
IN5338/DELNP/2005	A	2007-10-05	IN2005DN05338				
RU2318710	C2	2008-03-10	RU2318710				
NZ544001	A	2008-11-28	NZ-544001				
IN229629	B	2009-03-06	IN-229629				
EP1633640	B1	2009-04-08	EP1633640				
AT427889	T	2009-04-15	ATE427889				
DE602004020467	D1	2009-05-20	DE602004020467				
DK1633640	T3	2009-06-02	DK1633640T				
ES2322265	T3	2009-06-18	ES2322265				
CN100546879	C	2009-10-07	CN100546879C				
SI1633640	T1	2009-10-31	SI1633640T				
AU2004242590	B2	2010-09-09	AU2004242590				
JP2011079585	A	2011-04-21	JP2011079585				
CA2526708	C	2011-10-18	CA2526708				
KR101087622	B1	2011-11-29	KR101087622				
JP4884970	B2	2012-02-29	JP4884970				
JP2014184987	A	2014-10-02	JP2014184987				
BRPI0410631	A2	2016-06-28	BR200410631				
BRPI0410631	B1	2016-09-13	BR200410631				
JP6078500	B2	2017-02-08	JP6078500				

Abstract

(EP1633640)

A plastic container having a base portion (20) adapted for vacuum pressure absorption. The base portion including a contact ring (34) upon which the container is supported, an upstanding wall (44) and a central portion (36). The upstanding wall being adjacent to and generally circumscribing the contact ring. The central portion being defined in at least part by a central pushup (40) and an inversion ring (42) which generally circumscribes the central pushup. The central pushup and the inversion ring being moveable to accommodate vacuum forces generated within the container.

Inventors

LISCH G DAVID

SILVERS KERRY W

VAILLIENCOURT DWAYNE G

Latest standardized assignees - inventors removed

AMCOR

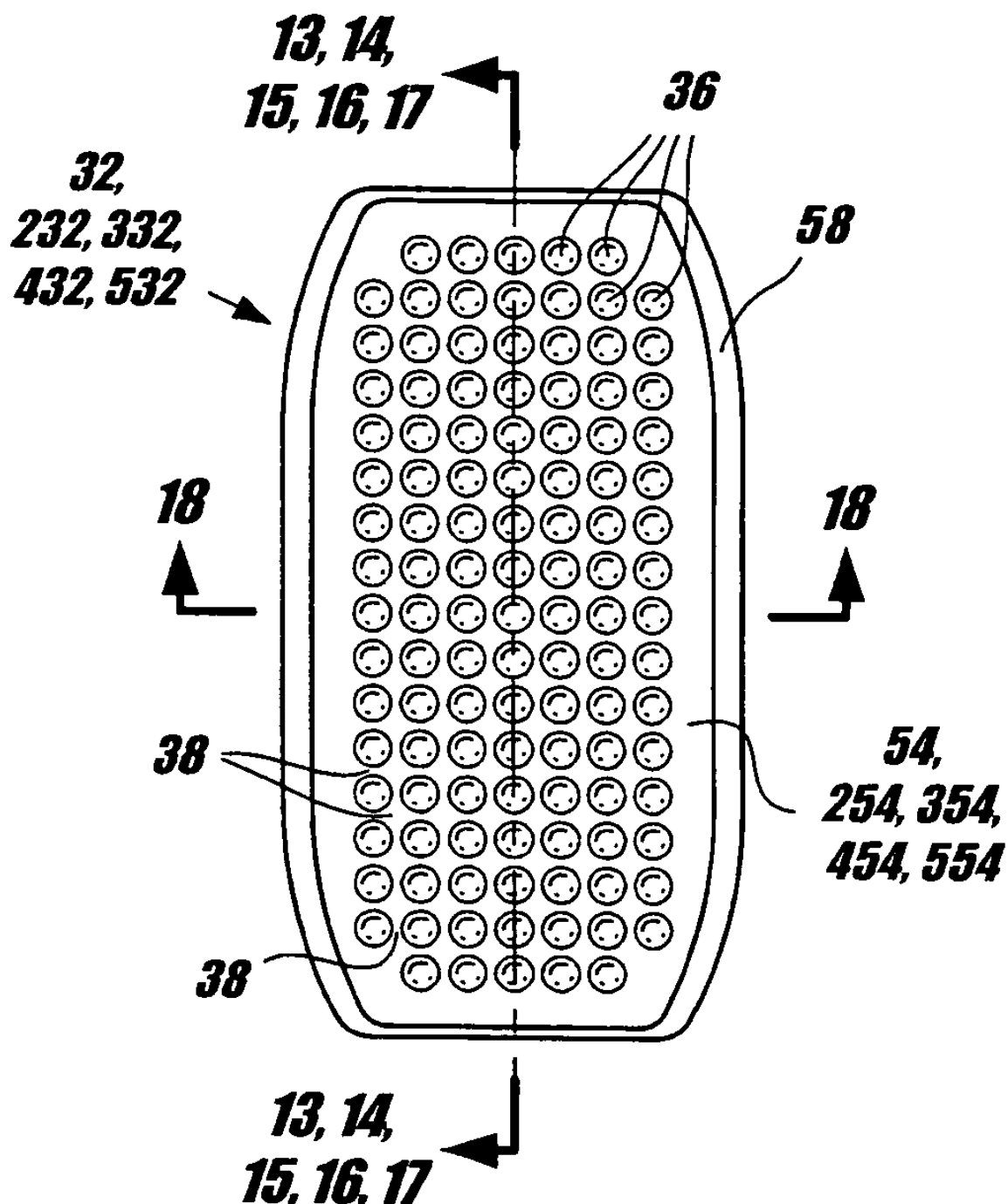
Family 16/21 - FAMPAT - ©Questel

Title

(EP1888428)

Inverting vacuum panels for a plastic container

Images



Publication data including kind & date

US2005247664	A1	2005-11-10	US20050247664
WO2006133127	A1	2006-12-14	WO2006133127
AU2006255160	A1	2006-12-14	AU2006255160
EP1888428	A1	2008-02-20	EP1888428
MX2007015481	A	2008-03-04	MX2007015481
US7377399	B2	2008-05-27	US7377399
BRPI0611114	A2	2010-08-10	BR200611114
BRPI0611114	A2	2010-08-10	BRPI0611114
NZ564013	A	2010-11-26	NZ-564013
EP1888428	B1	2011-01-05	EP1888428
DE602006019418	D1	2011-02-17	DE602006019418
ES2359081	T3	2011-05-18	ES2359081
AU2006255160	B2	2012-01-12	AU2006255160



Abstract

(EP1888428)

A sidewall portion of a plastic container (10) adapted for vacuum pressure absorption. The sidewall portion (18) including generally rectangular shaped vacuum panels (32) equidistantly spaced about the container (10). The vacuum panels (32) having, at least in part, a convex shaped surface and a series of equidistantly spaced indents (36) disposed therein. The vacuum panels (32) being moveable to accommodate vacuum forces generated within the container thereby (10) decreasing the volume of the container (10).

Inventors

LANE MICHAEL T

STEIH RICHARD J

GAMBER DANIEL W

BROWN RANDALL S

JOSHI ROHIT V

Latest standardized assignees - inventors removed

AMCOR

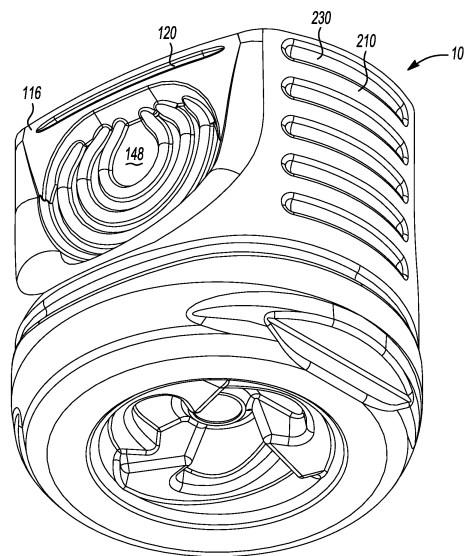
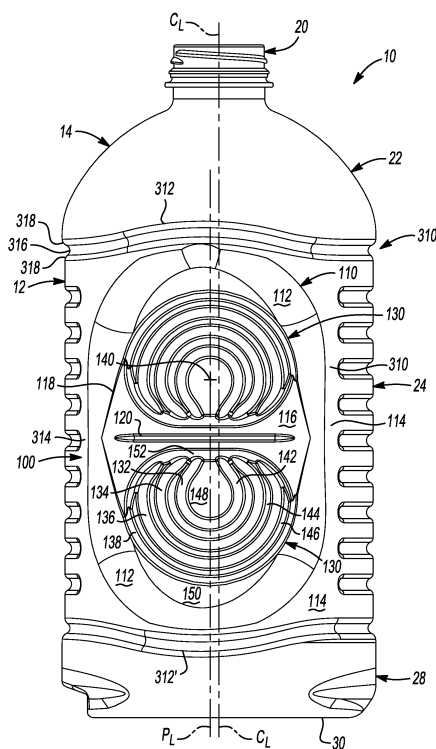
Family 17/21 - FAMPAT - ©Questel

Title

(WO2012112507)

Vacuum panel with balanced vacuum and pressure response

Images



Publication data including kind & date

US2012205341	A1	2012-08-16	US20120205341
CA2827073	A1	2012-08-23	CA2827073
WO2012112507	A2	2012-08-23	WO2012112507
WO2012112507	A3	2012-10-26	WO2012112507
AR085229	A1	2013-09-18	AR--85229
US8556097	B2	2013-10-15	US8556097
MX2013009222	A	2014-01-23	MX2013009222



Abstract

(WO2012112507)

A container comprising a finish, a sidewall portion extending from the finish, a base portion extending from the sidewall portion and enclosing the sidewall portion to form a volume therein for retaining a commodity, and a panel area disposed in the sidewall portion. The panel area having a belt land portion and a pair of inset portions in mirrored arrangement relative to the belt land portion.

Inventors

MAST LUKE A

PHILIP BRADLEY S

KUMAR PANKAJ

DOWNING DAVID

Latest standardized assignees - inventors removed

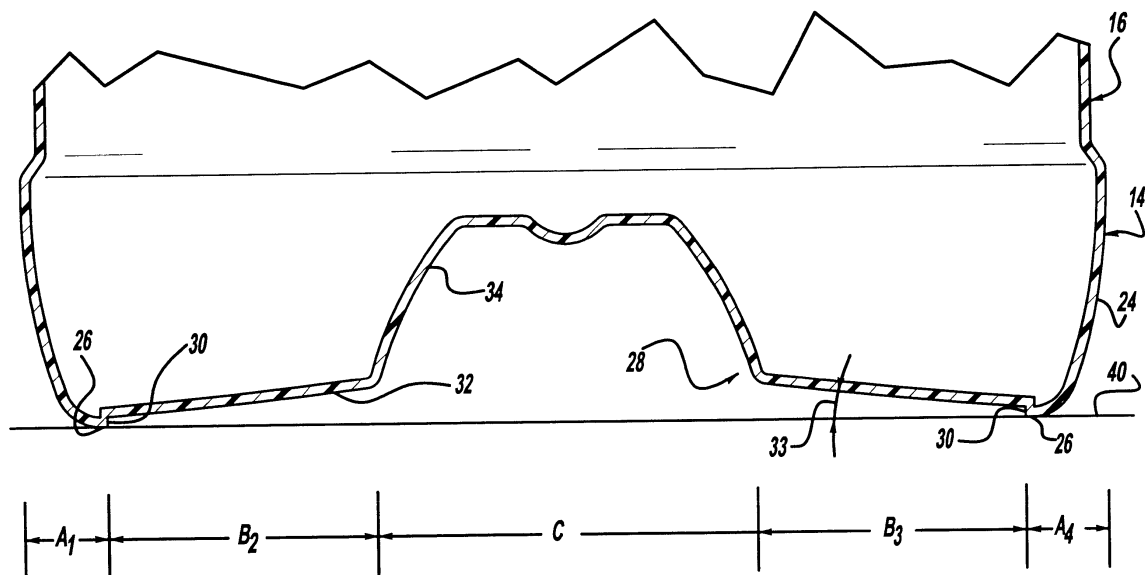
AMCOR

Family 18/21 - FAMPAT - ©Questel

Title

(EP1305219)

Container base structure

Images**Publication data including kind & date**

WO200208068	A1	2002-01-31	WO200208068
AU7795501	A	2002-02-05	AU200177955
US2002074336	A1	2002-06-20	US20020074336
EP1305219	A1	2003-05-02	EP1305219
US6595380	B2	2003-07-22	US6595380
EP1305219	B1	2005-11-23	EP1305219
AT310677	T	2005-12-15	ATE310677
DE60115247	D1	2005-12-29	DE60115247
ES2253404	T3	2006-06-01	ES2253404
DE60115247	T2	2006-08-10	DE60115247

**Abstract**

(EP1305219)

A plastic container (10) having a base portion (14) adapted for vacuum absorption. The base portion including a ring (26)

upon which the container is supported, an upstanding wall (30) and a recessed portion (28).The upstanding wall being adjacent to and generally circumscribing the contact ring.The recessed portion being defined in at least part by a flat base region (32) and a central base region (34).The flat base region extending from the upstanding wall toward a longitudinal axis of the container.The flat base region defining a projected surface area of at least 45% of a total projected surface area of the container.The flat base region being moveable to accommodate vacuum forces within said container.

Inventors

SILVERS KERRY W

Latest standardized assignees - inventors removed

AMCOR

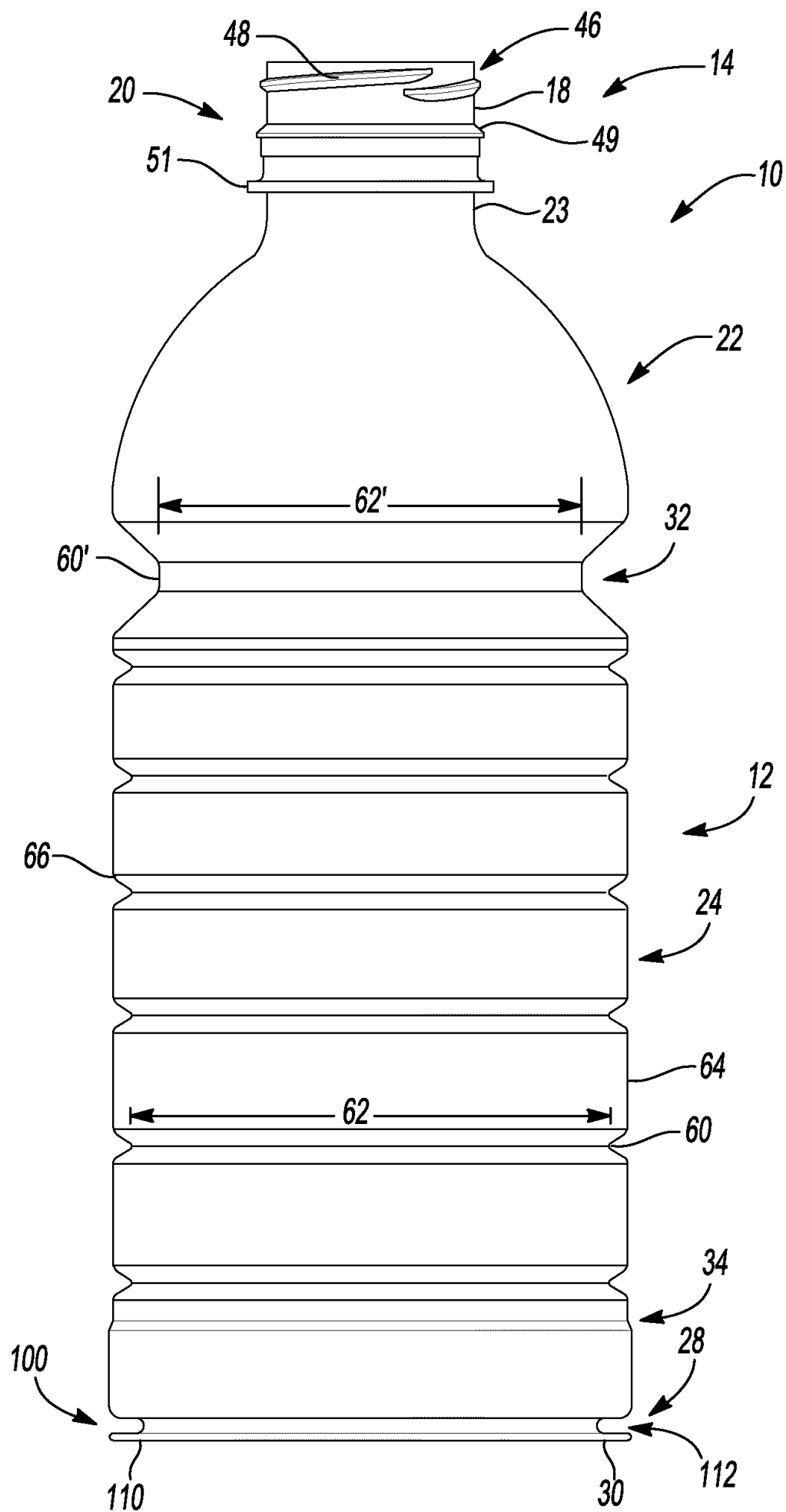
Family 19/21 - FAMPAT - ©Questel

Title

(WO2011109623)

Flexible standing ring for hot-fill container

Images



Publication data including kind & date

US2011217494	A1	2011-09-08	US20110217494				
WO2011109623	A2	2011-09-09	WO2011109623				
CA2791605	A1	2011-09-09	CA2791605				
WO2011109623	A3	2012-03-01	WO2011109623				
US8181804	B2	2012-05-22	US8181804				
CO6602135	A2	2013-01-18	CO6602135				
MX2012010203	A	2013-02-26	MX2012010203				
BR112012022347	A1	2013-07-09	BR112012022347				
BR112012022347	A2	2016-07-05	BR112012022347				
CA2791605	C	2017-11-28	CA2791605				

Abstract

(WO2011109623)

A blow-molded plastic container comprising a base portion having a flexible standing ring radially extending therefrom. The flexible standing ring is disposed about a lowest most portion of the container and operable to support the container on a surface. The flexible standing ring defines an annular groove thereabout that collapses in response to internal vacuum forces and/or external loading forces. The container further comprises a body portion that extends from an upper portion to the base, such that the upper portion, the body portion and the base cooperate to define a receptacle chamber within the container into which product can be filled.

Inventors

LANE MICHAEL T

Latest standardized assignees - inventors removed

AMCOR

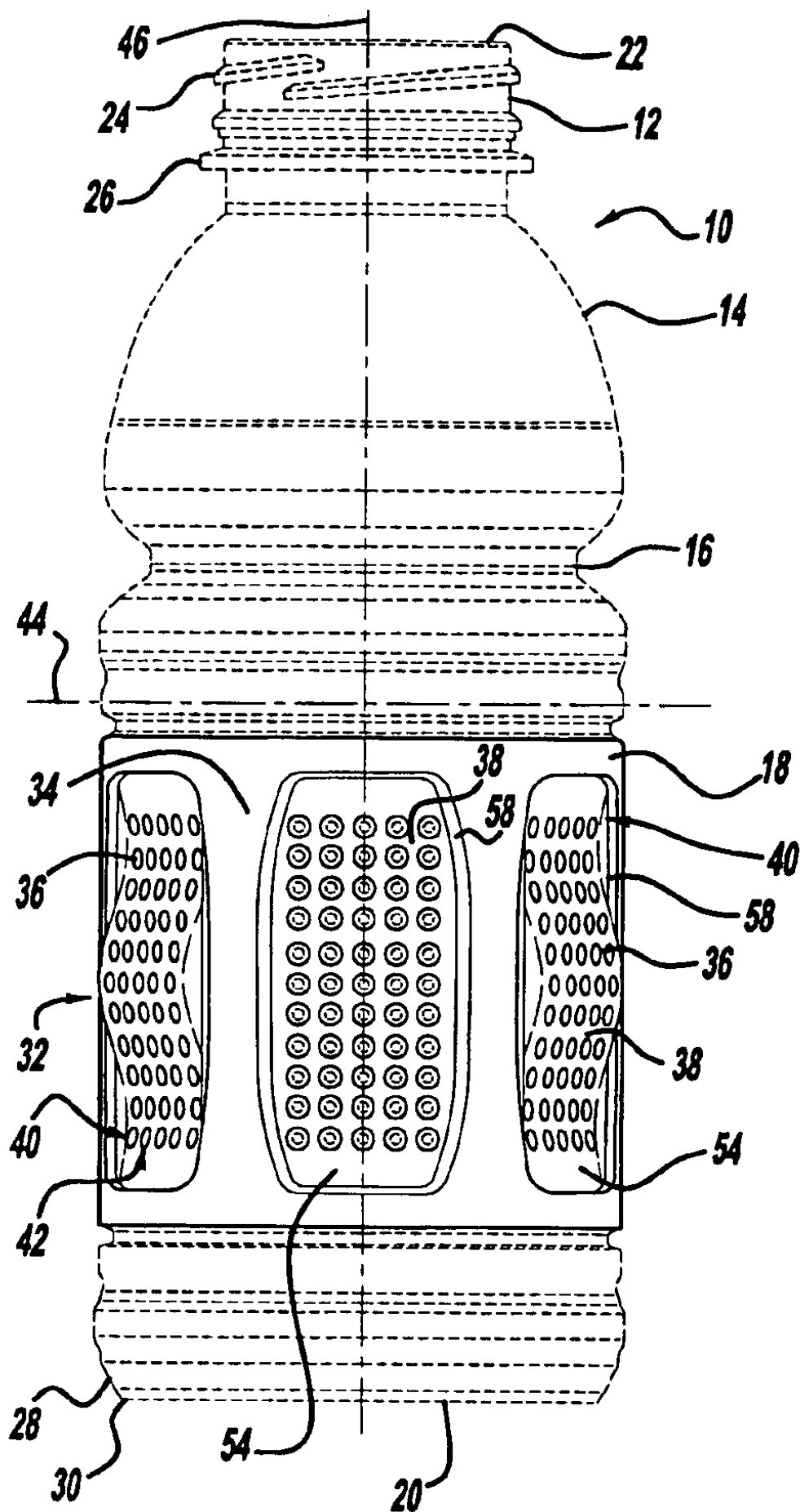
Family 20/21 - FAMPAT - ©Questel

Title

(EP1597169)

Inverting vacuum panels for a plastic container

Images



WO2004071897	A1	2004-08-26	WO200471897				
AU2004212495	A1	2004-08-26	AU2004212495				
US6920992	B2	2005-07-26	US6920992				
EP1597169	A1	2005-11-23	EP1597169				
BRPI0407378	A	2006-01-10	BR200407378				
BRPI0407378	A1	2006-01-10	BRPI0407378				
MXPA05008433	A	2006-02-08	MX2005PA008433				
AU2004212495	B2	2008-12-04	AU2004212495				
NZ541880	A	2009-01-31	NZ-541880				
NZ571809	A	2010-01-29	NZ-571809				
EP1597169	B1	2014-07-23	EP1597169				
ES2513042	T3	2014-10-24	ES2513042				
BRPI0407378	A2	2016-02-23	BR200407378				
BRPI0407378	B1	2016-11-29	BR200407378				

Abstract

(EP1597169)

A sidewall portion (18) of a plastic container (10) adapted for vacuum pressure absorption. The sidewall portion including generally rectangular shaped vacuum panels (32) equidistantly spaced about the container. The vacuum panels being defined in at least part by an upper portion (60), a central portion (62) and a lower portion (64) formed in a compound curve shape. The vacuum panels being moveable to accommodate vacuum forces generated within the container thereby decreasing the volume of the container.

Inventors

LANE MICHAEL T

STEIH RICHARD J

GAMBER DANIEL W

BROWN RANDALL S

Latest standardized assignees - inventors removed

AMCOR

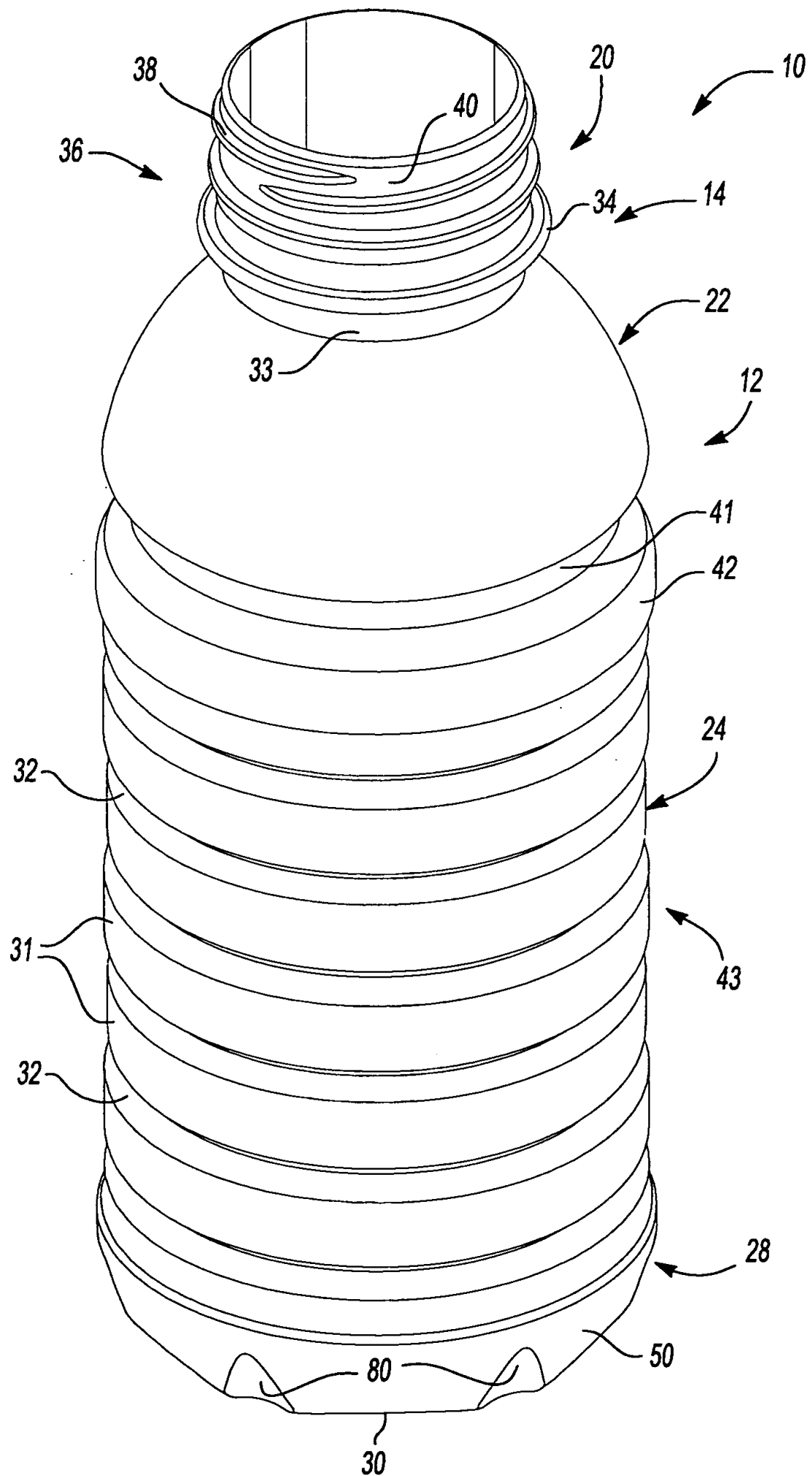
Family 21/21 - FAMPAT - ©Questel

Title

(EP2240370)

Hybrid base design

Images



Publication data including kind & date

US2009194546	A1	2009-08-06	US20090194546				
WO2009099864	A2	2009-08-13	WO200999864				
CA2713866	A1	2009-08-13	CA2713866				
WO2009099864	A3	2009-11-05	WO200999864				
EP2240370	A2	2010-10-20	EP2240370				
MX2010008483	A	2010-12-20	MX2010008483				
EP2240370	A4	2011-03-16	EP2240370				
EP2240370	B1	2012-04-25	EP2240370				
AT555026	T	2012-05-15	ATE555026				
CA2713866	C	2016-05-31	CA2713866				
BRPI0907146	A1	2016-07-05	BR200907146				
BRPI0907146	A2	2016-07-19	BR200907146				

Abstract

(EP2240370)

A one-piece plastic container includes a cylindrical body defining a longitudinal axis. The plastic container has an upper portion, a sidewall portion and a base portion. The base portion defines a radial sidewall and a continuous contact surface formed around a central pushup portion. A plurality of modulating vertical ribs are defined on the base portion generally at a transition between the continuous contact surface and the radial sidewall. The sidewall portion can be integrally formed with and extends from the upper portion to the base portion. According to one example, the plastic container can have six (6) modulating ribs. The base portion can define a plurality of facets formed between adjacent modulating vertical ribs.

Inventors

LANE MICHAEL T

Latest standardized assignees - inventors removed

AMCOR