

Search history

Search 1: STAC=((container or bottle or recipient) and plastic and ribs) (Results 5730)

Search 2: 1 and PD<20150130 (Results 5503)

Search 3: 2 and bell* (Results 134)

Search 4: 3 and sidewall (Results 10)

Title: DISPOSITIF-CHARGEUR-DISTRIBUTEUR POUR PIECES CIRCULAIRES MINCES DEVICE-LOADER PARTS DISTRIBUTOR FOR THIN CIRCULAR (Machine translation)

Abstract: Source: FR1484117A (Claim 1) 1. Le **recipient** se compose d'une cloche cylindrique dont la paroi porte une bonde de remplissage et dont la partie centrale, en forme de cheminée coulisse sur un arbre solidaire d'une plaque circulaire formant fond et portant des orifices pour l'introduction permanente d'un liquide d'entraînement des pièces;

Machine translation: (Claim 1) 1. The **container** consists of a cylindrical **bell** which wall carries a plug of filling and whose central part, chimney-shaped slides on a shaft integral with a circular plate forming the bottom and carrying permanent openings for the introduction of Training of a liquid parts;

Classifications:

International (IPC 8-9): B23F23/04 B44B5/02 G04D1/00

G04D3/00 (Advanced/Invention);

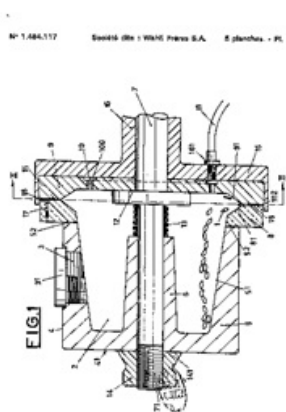
B23F23/00 B44B5/00 G04D1/00 G04D3/00 (Core/Invention)

International (IPC 1-7): G04D1/00 G04D3/00

CPC: B23F23/04 B44B5/024 G04D1/0078 G04D3/002

European: B23F23/04 B44B5/02C G04D1/00G G04D3/00B8B

PatBase - FR1484117_A



Family:

Publication number	Publication date	Application number	Application date
FR1484117 A	19670609	FR19660065620	19660615

Priority:

FR19660065620 19660615

Probable Assignee:

WAHLI FRERES SA

Assignee(s): (std):

WAHLI FRERES SA

Assignee(s):

WAHLI FRERES S A

Title: Closed wound suction evacuator

Abstract: Source: US4460354A An evacuator system comprising a compressible container inside of which is positioned a vacuum assist device. The vacuum assist device aids in the expansion of the container and in developing a vacuum in the container upon expansion. The vacuum assist device within the evacuator acts to maintain a substantially constant level of vacuum as the evacuator expands while drawing fluids from a closed wound and collecting the fluids in the evacuator container. The evacuator includes an outlet for providing communication between the interior of the container and the atmosphere, and an inlet providing communication between the interior of the container and a drainage tube. The evacuator may include a novel valve mechanism which enables the evacuator to be activated, held in an activated position until needed, and then released from the held position for use to draw fluid from a patient.

Classifications:

International (IPC 8-9): A61M1/00 (Advanced/Invention);

A61M1/00 (Core/Invention)

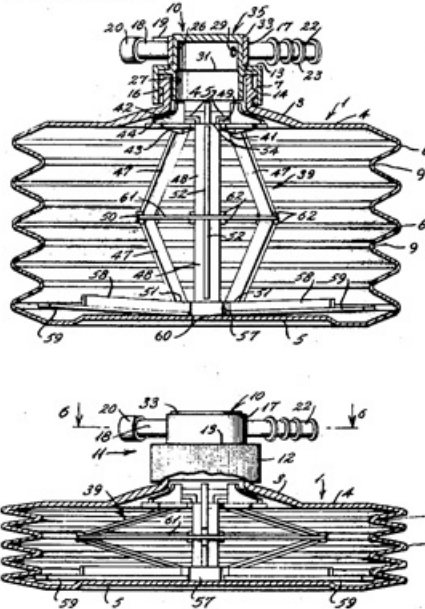
International (IPC 1-7): A61M1/00 A61M1/06 A61M27/00 A61M37/00

CPC: A61M1/0011 Y10T137/86823

European: A61M1/00A5

US: 137/625.41 604/131 604/133 604/181 604/73 D24/111

PatBase - US4460354_A



Family:

Publication number	Publication date	Application number	Application date
AU198172674 A1	19820114	AU19810072674	19810708
CA1180966 A1	19850115	CA19810381278	19810707
DE3126949 A1	19820325	DE19813126949	19810708
FR2486404 A1	19820115	FR19810013110	19810703
GB2080119 A1	19820203	GB19810021139	19810708
GB2080119 B2	19850703	GB19810021139	19810708
GB2141933 A1	19850109	GB19840004688	19840222
GB2141933 B2	19850710	GB19840004688	19840222
GB8404688 A0	19840328	GB19840004688	19840222
JP57078861 A2	19820517	JP19810106835	19810708
US4460354 A	19840717	US19800166940	19800708
US4529402 A	19850716	US19840582196	19840221

Priority:

CA19810381278 19810707

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US19800166940 19800708

US19840582196 19840221

Probable Assignee: ZIMMER ORTHOPAEDIC SURGICAL PRODUCTS INC

Assignee(s): (std): SNYDER LAB INC ; SUTAIDAA LAB INC ; BRISTOL MYERS CO

Assignee(s): BRISTOL MYERS COMPANY ; RANSOM DEAN A ; SNYDER LABORATORIES INC PO BOX 409 NEW PHILADELPHI ; SNYDER LABORATORIES INC 44663 NEW PHILADELPHIA OHIO US ; WEILBACHER EUGENE E ; SNYDER LABORATOIRES INC ; SNYDER LABORATOIRES INC A CORP OF DE ; SNYDER LABORATORIES INC ; ZIMMER INC ; ZIMMER ORTHOPAEDIC SURGICAL PRODUCTS INC

Inventor(s): (std): DEIIN EI RANSOM ; RANSOM DEAN A ; WEILBACHER EUGENE E ; YUJIN II UEIRUBAACHAA ; YUJIN II UEIRUBAACHIYAA

Inventor(s): RANSOM DEAN A 44663 NEW PHILADELPHIA OHIO US ; DEAN A RANSOM ; EUGENE E WEILBACHER ; EUGENE E WEILBACHER ET DEAN A RANSOM

Agent(s): PHILLIPS ORMONDE FITZPATRICK; GOWLING LAFLEUR HENDERSON LLP

Title: SPINNER ASSEMBLY FOR A SPRAYER

Abstract: Source: US5234166A A cap, spinner, and discharge nozzle assembly for use with a liquid dispensing apparatus such as a trigger sprayer. The spinner assembly can be externally fitted to the discharge nozzle, and includes an annular chamber surrounding a central post having a swirl chamber in its top. The central post includes longitudinal grooves, communicating with tangential grooves in an annular wall defining the swirl chamber. Apertures are provided in the base of the annular chamber such that pressurized liquid flows through the apertures and into the annular chamber, with a resulting reduction of velocity, and then along the longitudinal grooves and through the tangential grooves into the swirl chamber. A cap is provided which variably engages the discharge nozzle and which has at least a central projection on the inner side of its front face, and preferably an annular groove formed by an outer projection surrounding the central projection. The central projection may reversibly seal against the floor and/or annular wall of the swirl chamber, and the annular groove may seal over the annular wall.

Classifications:

International (IPC 8-9): B05B1/12 B05B1/34 B05B11/00 B05B11/02 (Advanced/Invention); B05B1/34 B05B11/00 (Core/Invention); B05B1/34 (Core/Non-invention)

International (IPC 1-7): B05B1/00 B05B1/12 B05B1/34 B05B11/00 B05B11/02 B05B9/01 B05B9/04 B05B9/43 B65D37/00 B65D47/34 B67D5/00 B67D5/40 B67D5/42 F16K15/14

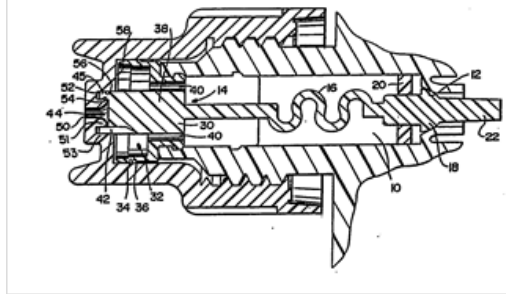
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European: B05B1/34A3B4 B05B11/00B B05B11/00B2 B05B11/00B5 B05B11/00B9L B05B11/00B9R B05B11/00P1 B05B11/00P9R

B05B11/30C5B B05B11/30E5B B05B11/30E7 B05B11/30E8 B05B11/30H3 B05B11/30H3F2 B05B11/30H7B B05B11/30H8B B05B11/30H8F L05B1/34A1 L05B1/34A3B4B L05B11/00B3F L05B11/00B9 L05B11/00P1 L05B11/30H3F2 L05B11/30H7B

US: 137/854 22/234. 222/207 222/324 222/340 222/341 222/383 222/383.1 23/933.3 239/333 239/481 239/485 239/493 239/571

PatBase - US5234166_A



Family:

Publication number	Publication date	Application number	Application date
AU199189480 A1	19920526	AU19910089480	19911016
AU199349091 A1	19940505	AU19930049091	19931019
AU199526406 A1	19951218	AU19950026406	19950515
AU648226 B2	19940414	AU19910089480	19911016
AU671303 B2	19960822	AU19930049091	19931019
CA2094712 AA	19930422	CA19912094712	19911016
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CA2108647 AA	19940422	CA19932108647	19931018
CA2188762 AA	19961024	CA19952188762	19950515
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DE69318256 D1	19980604	DE19936018256	19931020
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EP0554373 A1	19930811	EP19910920361	19911016
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EP0598237 A2	19940525	EP19930117002	19931020
EP0598237 A3	19940921	EP19930117002	19931020
EP0598237 B1	19980429	EP19930117002	19931020
EP0734783 A2	19961002	EP19960201764	19931020
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EP0742050 A2	19961113	EP19960202141	19931020
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EP0764471 A2	19970326	EP19960117748	19931020
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JP6502345 T2	19940317	JP19910518597T	19911016
US5234166 A	19930810	US19900603281	19901025
US5385302 A	19950131	US19920964158	19921021
US5425482 A	19950620	US19940242326	19940513
US5507437 A	19960416	US19950371819	19950112
US5509608 A	19960423	US19950372061	19950112
US5509608 B1	20001107	US19950372061	19950112
US5513800 A	19960507	US19950371830	19950112
US5551636 A	19960903	US19950371959	19950112
US5553752 A	19960910	US19950459036	19950602

US5553752 C 1	20010508	US19950459036	19950602
US5566885 A	19961022	US19950371815	19950112
US5575407 A	19961119	US19960614901	19960313
US5593093 A	19970114	US19950372097	19950112
US5615835 A	19970401	US19950456511	19950601
US5884845 A	19990323	US19970829605	19970331
USRE35744 E	19980317	US19950513099	19950809
WO9207660 A1	19920514	WO1991US07684	19911016
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Priority:

CA19932108647	19931018	EP19930117002	19931020	US19900603281	19901025
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US19960614901	19960313	US19970829605	19970331	US19950513099	19950809
WO1991US07684	19911016				

Probable Assignee: CONTINENTAL SPRAYERS INT INC

Assignee(s): (std): CONTICO ; CONTICO INT INC ; CONTICO INTERNATIOAL INC ; CONTINENTAL SPRAYERS INTERNATI ; CONTINENTAL SPRAYERS INT INC

Assignee(s): WACHOVIA CAPITAL FINANCE CENTRAL CORP ; NELSON PHILIP L ; FOSTER DONALD D ; WACHOVIA CAPITAL FINANCE (CENTRAL) CORP ; AFA PRODUCTS INC ; AFA PRODUCTS INC DELAWARE CORP ; CIT GROUP BUSINESS CREDIT INC ; CIT GROUP BUSINESS CREDIT INC COLLATERAL AGENT AS ; NATIONSCREDIT COMMERCIAL CORP ; CONTINENTAL SPRAYERS INT ; OAK HILL SECURITIES FUND LP ; FIRST UNION NATIONAL BANK ; CONTINENTALAFA DISPENSING CO ; KONTEIKO INTERNATL INC ; HARBINGER CAPITAL PARTNERS MASTER FUND I LTD ; WACHOVIA CAPITAL FINANCE CORP ; CONTINENTAL SPRAYERS INT INC A DELAWARE CORP ; CONTINENTAL SPRAYERS INC ; CONTINENTAL SPAYERS INC ; CONTICO INT ; CONTINENTAL ACQUISITION CORP ; CONTICO INT INC ST LOUIS MO US ; CONTICO INTERNATIONAL INC ; CONTINENTAL SPAYERS INC A CORP OF MO ; CONTINENTAL AFA DISPENSING CO

Inventor(s): (std): PHILIP L NELSON ; NELSON PHILIP L ; NELSON PHILIP ; FUJITSUPU ERU NERUSON ; FOSTER DONALD D ; FOSTER DONALD ; DONARUDO DEI FUOSUTAA ; DONALD D FOSTER

Inventor(s): NELSON PHILIP L ST CHARLES MO 63301 US ; FOSTER DONALD D ST CHARLES MO 63303 US ; NELSON PHILIP L ELLISVILLE MISSOURI 63011 US ; FOSTER DONALD D ST CHARLES MISSOURI 63303 US

Agent(s): SPRUSON AND FERGUSON; ASPEN PHARMA PTY LTD; OSLER HOSKIN AND HARCOURT LLP

Designated states: AT AU BE CA CH DE DK ES FR GB GR IE IT JP LU MC NL PT SE

Title: PRODUCE PACKAGING SYSTEM HAVING PRODUCE **CONTAINERS** WITH DOUBLE-ARCHED BOTTOM VENTILATION CHANNELS

Abstract: Source: US2003077363A A produce packaging system incorporates a tray for receiving a plurality of produce carrying baskets. The baskets each include upper ventilation slots and lower ventilation channels. The lower ventilation channels are formed by arching the bottoms of the baskets to form transversely oriented channels in the bottoms of the baskets configured to enable bi-directional cooling airflow to pass underneath the baskets in at least two transverse directions. Bi-directional airflow is also achieved in the upper portion of the baskets through the ventilation slots. The trays are configured such that, when the baskets are loaded into the trays, the upper ventilation slots and the lower cooling channels are aligned with sets of cooling vents in the trays thereby facilitating efficient cooling of produce contained in the baskets.

Classifications:

International (IPC 8-9): B65B25/02 B65D85/00 A01F25/08
A01F25/14 A23B7/14 A23B7/144 A23B7/148 A45C11/20 A47G19/00
B29C49/00 B65B1/00 B65B63/08 B65D1/22 B65D1/26 B65D19/02
B65D21/00 B65D21/02 B65D21/032 B65D25/00 B65D3/28
B65D43/10 B65D43/16 B65D43/22 B65D45/16 B65D5/42 B65D51/04
B65D51/16 B65D6/00 B65D6/28 B65D71/00 B65D77/04 B65D8/00
B65D8/04 B65D8/06 B65D8/18 B65D81/18 B65D81/26 B65D85/30
B65D85/34 B65D90/34 C12C1/027 G01N27/64 (Advanced/Invention);
B65D51/16 B65D77/04 B65D85/34 G01N33/00 (Advanced/Non-invention);
A23B7/14 A23B7/144 B65B63/00 B65D1/22 B65D21/02 B65D43/16
B65D45/00 B65D51/00 B65D51/16 B65D77/04 B65D8/04 B65D81/18
B65D81/26 B65D85/34 B65D90/22 (Core/Invention);
B65D85/34 (Core/Non-invention);
B65B B65D (Subclass/Invention)

International (IPC 1-7): B29C49/00 B65B0/00 B65B1/00 B65D

B65D21/00 B65D21/02 B65D21/032 B65D43/16 B65D5/42
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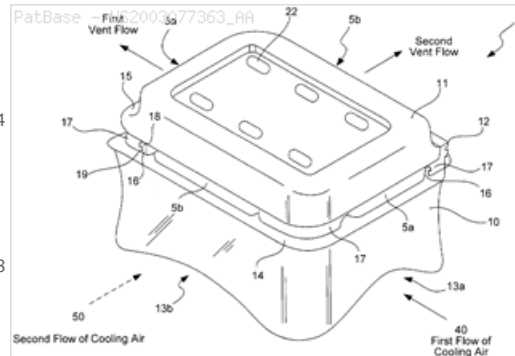
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B65D81/18 B65D85/34 B65D2205/00 B65D2251/1016 B65D2251/105 B65D2577/043 B65B25/04 B65D81/26 B65D81/263
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European: B65B25/04 B65D1/22 B65D11/24 B65D21/02E3 B65D43/16B B65D43/16C B65D43/22 B65D5/42V B65D77/04D1
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US: 206/204 206/501 206/501S 206/509 206/545 206/545S 206/564 206/564S 220/23.4 220/23.400P 220/23.6 220/23.600P
220/23.600S 220/23.86 220/23.88 220/23.88P 220/324 220/324S 220/366.1 220/366.100P 220/366.100S 220/367.1
220/367.100S 220/4.21 220/4.23 220/592.01 220/592.010P 220/608 220/676 220/826 220/835 220/839 220/913 220/915.2
220/915.200S 229/12 229/120 229/120S 264/544 426/106 426/106P 426/392 53/440 53/440S D9/423 D9/434

Locarno class: 09/07 09/03



Family:

Publication number	Publication date	Application number	Application date
AR060504 AA	20080625	AR2007P101531	20070411
AU199718326 A1	19970820	AU19970018326	19970121
AU200138989 A5	20010705	AU20010038989D	20010430
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PT1436198 T	20130718	PT20020757619T	20020906
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WO9727040 A1	19970731	WO1997US00855	19970121
ZA200402742 A	20050511	ZA20040002742	20040408
ZA200402742 A	20050727	ZA20040002742	20040408
ZA200801423 A	20090128	ZA20080001423	20080212

Priority:

AU19970018326	19970121	AU20010038989	20010430	EP20020757619	20020906
US19980060452	19980414	US20000590631	20000608	US19980060453	19980414
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US20030180973F	20030502	US20030180937F	20030502	US20010322670P	20010911
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WO2002US28338	20020906	WO1997US00855	19970121	US20100718869	20100305
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US20060474096	20060622	US20110300197	20111118	US20060481537	20060705
WO2005US37782	20051019	US20110158209	20110610	US20130925494	20130624

Probable Assignee: SAMBRAILO PACKAGING INC

Assignee(s): (std): AMBRAILO PACKAGING INC ; CADIENTE ANTHONY ; CADIENTE ANTHONY M ; PLEXIFORM COMPANY ; SAMBRAILO PACKAGING ; SAMBRAILO MARK ; SAMBRAILO WILLIAM K ; SAMBRAILO PACKAGING INC ; PLEXIFORM CO ; SAMBRAILO LEGAL REPRESENTATIVE MARK

Assignee(s): SAMBRAILO PACKAGING INC WATSONVILLE ; SAMBRALIO PACKAGING INC ; SAMBRAILO WILLIAM ; MBRAILO PACKAGING INC 800 WALKER STREETWATSO NVSA

Inventor(s): (std): ANTHONY CADIENTE ; MARK SAMBRAILO ; WILLIAM SAMBRAILO ; WILLIAM K SAMBRAILO ; SAMBRALLO WILLIAM K ; SAMBRALLO MARK ; SAMBRAILO WILLIAM K ; SAMBRAILO WILLIAM ; SAMBRAILO MARK ; SAMBRAILO LEGAL REPRESENTATIVE MARK ; CADIENTE ANTHONY ; CADIENTE ANTHONY M ; CADIENTE ANTHONY

Inventor(s): SAMBRAILO MARK WATSONVILLE ; SAMBRAILO WILLIAM K APTOS ; CADIENTE ANTHONY SALINAS

Agent(s): PIZZEYS ; PIZZEYS PATENT AND TRADE MARK ATTORNEYS PTY LTD ; PIZZEYS PATENT AND TRADE MARK ATTORNEYS ; SIM AND MCBURNEY ; CASSAN MACLEAN ; JOHANSSON ; CLARKE ; WAGNER AND

GEYER PARTNERSCHAFT MBB PATENT U RECHTSANWAELTE; O NEILL AOIFE; ALTON ANDREW;
CARPINTERO MARIO; BEYER WEAVER AND THOMAS LLP; BEYER WEAVER LLP; BEYER LAW GROUP LLP;
KALINSKI II FRANCIS T ET AL

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY
CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN
IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX
MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD
TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: BEVERAGE DISPENSING URN WITH ELECTRONIC DISPLAY

Abstract: Source: US2002145527A A dispensing urn assembly (10, 10') with a hollow body (12) with an interior surface for containing beverage (14) and a manually operable faucet (16) for selectively dispensing beverage (14) from the bottom of hollow body with an electronic status display assembly (50) controlled by a microcomputer (62) in response to a temperature probe (44), a level probe (42) and a timer reset switch (46) to provide graphic displays (64,68, 72), numerical displays (66,70, 74) of the temperature, quantity and time elapsed or remaining since the brewing of the beverage and light indication displays (55,57, 59) when preselected values are achieved. A integrated funnel assembly (30') with a down-tube (40) and level probes (174-186) carried by the down-tube (40), electronic module (170) and relatively rigid interconnection (200,174) between provides a water tight passageway for leads from the probes to the microcomputer (62) contained within the electronic component housing and forms a single subassembly or module that eliminates the need for switches for activation and operation of the display (162) and may be removed for cleaning or repair.

Classifications:

International (IPC 8-9): A23B7/154 A47J31/50 B65D37/00 B67D1/06 B67D1/07 B67D1/08 B67D1/16 B67D3/00 B67D3/04 B67D5/06 B67D7/06 (Advanced/Invention);

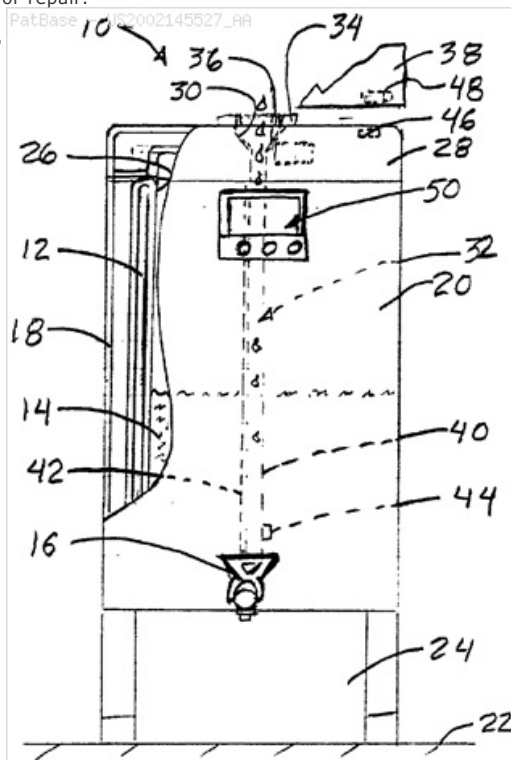
A47J31/56 (Advanced/Non-invention);
A47J31/44 B65D37/00 B67D1/00 B67D3/00 B67D7/06 (Core/Invention)

International (IPC 1-7): A01K43/00 A23F5/00 A23L1/20 A23L1/28 A47J31/00 B67B7/00 B67D0/00 B67D1/06 B67D1/07 B67D1/16 B67D3/00 B67D5/06 B67D5/62 G01F11/00 G01F11/06 G08B21/00

CPC: B67D1/06 B67D1/0891 B67D1/16 B67D3/00 B67D3/0054 B67D3/0083 A47J31/50 A47J31/56 B67D1/0871 B67D1/0829 B67D3/009 B67D3/043 B67D3/0029 A47J41/0033 B05B11/00

European: A47J31/50 A47J41/00C5P B05B11/00 B67D1/06 B67D1/08B B67D1/08E B67D1/08K2 B67D1/16 B67D3/00 B67D3/00H B67D3/00P B67D3/00R8A B67D3/00R8B B67D3/04D K47J31/56

US: 220/592.19 222/1 222/108 222/131 222/146.2 222/146.5 222/181.1 222/183 222/185.1 222/185.100P 222/185.100S 222/1P 222/209 222/23 222/23P 222/312 222/401 222/462 222/54 222/560 222/570 222/64 340/618 340/622 340/622P 340/623 426/321 426/431 426/433 426/435 99/279 99/280 99/285 99/306

**Family:**

Publication number	Publication date	Application number	Application date
AU2002306895 AA	20021008	AU20020306895	20020325
AU2002332518 AA	20030303	AU20020332518	20020809
CA2456973 AA	20040209	CA20022456973	20020809
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CA2457434 AA	20040210	CA20022457434	20020809
CA2457434 C	20071127	CA20022457434	20020809
CN100335402 C	20070905	CN20028016014	20020809
CN1289385 C	20061213	CN20028016013	20020809
CN1543429 A	20041103	CN20028016013	20020809
CN1608028 A	20050420	CN20028016014	20020809
EP1419101 A1	20040519	EP20020768511	20020809
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EP1448476 A2	20040825	EP20020794878	20020809
EP1448476 A4	20080312	EP20020794878	20020809
JP2005500217 T2	20050106	JP20030521135T	20020809
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MXPA04001405 A1	20050620	MX2004PA01405	20020809
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US2004195263 AA	20041007	US20040819828	20040407
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US7798373 BA	20100921	US20040999283	20041130

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WO02076875 A2	20021003	WO2002US09405	20020325
WO02076875 A3	20030109	WO2002US09405	20020325
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WO03016197 A3	20040610	WO2002US25643	20020809
WO03016199 A1	20030227	WO2002US25627	20020809
WO03016201 A1	20030227	WO2002US25626	20020809

Priority:

US20010278839P 20010326	US20010930923 20010816	US20010931687 20010816
US20040761709 20040121	US20040819828 20040407	US20020118684 20020409
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WO2002US09405 20020325	WO2002US25627 20020809	WO2002US25643 20020809
US20040990644 20041117	US20040999283 20041130	

Probable Assignee: FOOD EQUIPMENT TECHNOLOGIES CO INC

Assignee(s): (std): FETCO EQUIPMENT TECHNOLOGIES C ; FOOD EQUIP TECHNOLOGIES CO INC ; FOOD EQUIPMENT TECHNOLOGIES CO INC ; ZBIGNIEW G LASSOTA ; LASSOTA ZBIGNIEW G

Assignee(s): NOWARK CHRISTOPHER ; WIERZBICKI CHRISTOPHER J ; LASSOTA MICHAEL W ; ZBIGNIEW G ; FOOD EQUIPMENT TECHNOLOGIES COMPANY INC ; NOWAK CHRISTOPHER ; FOOD EQUIPMENT TECHNOLOGIES CO ; FETCO EQUIPMENT TECHNOLOGIES COMPANY INC

Inventor(s): (std): CHRISTOFER NOWAK ; CHRISTOPHER LASSOTA ZBIGNIEW G ; G LASSOTA ZBIGNIEW ; LASSOTA ZBIGNIEW G ; NOWAK CHRISTOPHER ; ZBIGNIEW G LASSOTA ; WROBLEWSKI LESZEK M ; WIERZBICKI CHRISTOPHER J ; SOKOLSKI BARTOSZ ; NOWARK CHRISTOPHER ; MICHALEK CHRISTOPHER P ; LASSOTA MICHAEL W

Inventor(s): LASSOTA ZBIGNIEW G NOWAK CHRISTOPHER ; ZBIGNIEW G

Agent(s): RIDOUT AND MAYBEE LLP; JAMES W; POTTHAST AND ASSOCIATES; POTTHAST JAMES W

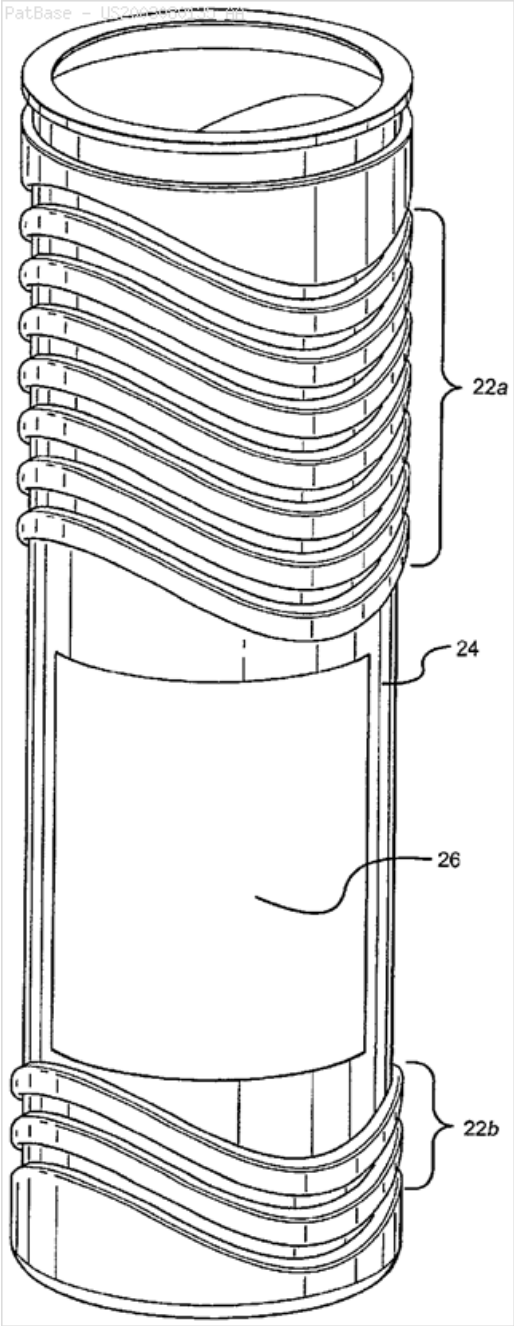
Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NL NO NZ OM PH PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VN YU ZA ZM ZW

Title: Implosion resistant containers

Abstract: Source: US2003080135A The present invention overcomes many of the shortcomings inherent in previous containers for packaging potato chips, corn based chips, cookies and the like. The improved implosion-resistant container of the present invention utilizes a collection of stress dissipating mechanisms that counteract the forces causing thermoplastic container deformation, implosion and loss of seal integrity. This collection of stress dissipating mechanisms, employed collectively or separately, allows a container for storing fragile food products to be fashioned as a relatively lightweight, thin-walled blow molded thermo-plastic container that is capable of adapting to changing environmental conditions while maintaining its visual aesthetic appearance.

Classifications:

International (IPC 8-9): B32B27/08 B65D1/00 B65D1/02 B65D1/10 B65D1/16 B65D1/42 B65D1/44 B65D1/46 B65D1/48 B65D6/08 B65D6/10 B65D6/28 B65D79/00 B65D8/08 B65D8/12 B65D81/20 B65D85/30 B65D85/36 B65D90/02 (Advanced/Invention); B65D1/00 B65D1/02 B65D1/40 B65D6/00 B65D79/00 B65D8/04 B65D81/20 B65D85/30 B65D90/02 (Core/Invention); B65D (Subclass/Invention)
International (IPC 1-7): B65D1/00 B65D35/00 B65D6/08 B65D6/10 B65D6/28 B65D85/00 B65D90/02
CPC: Y10T428/1352 Y10T428/139 B65D79/005 B65D1/10 B65D1/16 B65D1/40 B65D1/44 B65D1/46 B65D11/02 B65D11/22
European: B65D1/10 B65D1/16B B65D1/40 B65D1/44 B65D1/46 B65D11/02 B65D11/22 B65D79/00B
US: 215/381 220/669 220/673 220/675 428/35.7 428/35.700P 428/36.9 428/36.900S



Family:

Publication number	Publication date	Application number	Application date
AU2002348078 AA	20030512	AU20020348078	20021025
BRPI0213923 A	20051025	BR2002PI13923	20021025
CA2463876 AA	20040415	CA20022463876	20021025
CA2463876 C	20090908	CA20022463876	20021025
CA2667762 AA	20030508	CA20022667762	20021025
CA2667762 C	20121002	CA20022667762	20021025
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CA2667769 C	20120403	CA20022667769	20021025
CA2667770 AA	20030508	CA20022667770	20021025
CA2667770 C	20120320	CA20022667770	20021025
CN1701031 A	20051123	CN20028021362	20021025
EP1458615 A2	20040922	EP20020784294	20021025
JP2006503758 T2	20060202	JP20030540024T	20021025
MXPA04004087 A1	20041029	MX2004PA04087	20021025

TH58127 A	20030905	TH20021004003	20021028
TH66729 A	20050124	TH20041001452	20040423
US2003080135 AA	20030501	US20010032654	20011029
US2005098566 AA	20050512	US20030614323	20030707
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US2007077381 AA	20070405	US20060608215	20061207
US2007090119 AA	20070426	US20060608170	20061207
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US7163123 BB	20070116	US20030614323	20030707
US8573434 BB	20131105	US20060608170	20061207
US8905261 BB	20141209	US20060608215	20061207
WO03037724 A2	20030508	WO2002US34343	20021025
WO03037724 A3	20031016	WO2002US34343	20021025
WO03037724 B1	20050120	WO2002US34343	20021025
WO05009845 A2	20050203	WO2004US11411	20040414
WO05009845 A3	20060817	WO2004US11411	20040414
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Priority:

CA20022463876 20021025	CA20022667762 20021025	CA20022667769 20021025
US20060608193 20061207	US20030614323 20030707	US20060608204 20061207
US20060608170 20061207	US20010032654 20011029	CA20022667770 20021025
US20060608215 20061207	WO2002US34343 20021025	

Probable Assignee: FRITO LAY NORTH AMERICA INC

Assignee(s): (std): BEZEK EDWARD A ; BEZEK EDWARD ANTHONY ; FRITO LAY NORTH AMERICA INC ; RECOT INC

Inventor(s): (std): BEZEK EDWARD A ; BEZEK EDWARD ANTHONY

Inventor(s): EDWARD ANTHONY BEZEK ; BEZEK EDWARD

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; BENNETT JONES LLP; CARSTENS YEE AND CAHOON LLP; CARSTENS AND CAHOON LLP; COLIN P; JEFFREY G; BOBBY W; STEPHEN Y

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: PLASTIC CONTAINER

Abstract: Source: US2003161980A A **plastic container**, especially suitable for long-term storage of beverages that are hot filled into the **containers**, having in one embodiment four relatively flat vacuum panels, having in another embodiment a seven layer polymeric material with a nylon interior layer, and having in another embodiment a combination of the other embodiments.

Classifications:

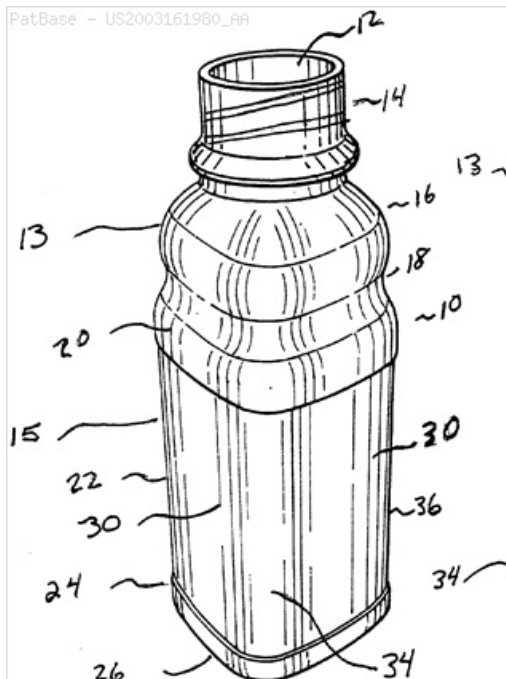
International (ipc 8-9): B32B27/08 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B65D1/02 B65D23/00 B65D90/02 (Advanced/Invention); B32B27/08 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B65D1/02 B65D23/00 B65D90/02 (Core/Invention)

International (ipc 1-7): B32B1/02 B65D0/0 B65D0/0000 B65D1/02 B65D79/00

CPC: Y10T428/1352 Y10T428/1383 B65D1/0215 B32B27/08 B32B27/30 B32B27/32 B32B27/34 B65D2501/0081

European: B32B27/08 B32B27/30 B32B27/32 B32B27/34 B65D1/02B1 L65D501/02Y9

US: 215/12.1 215/382 428/35.7 428/36.7 D9/560 D9/563

**Family:**

Publication number	Publication date	Application number	Application date
CA2420434 AA	20030827	CA20032420434	20030226
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CA2555513 C	20090811	CA20032555513	20030226
CA2750061 AA	20030827	CA20032750061	20030226
EP1344720 A2	20030917	EP20030251193	20030227
MXPA03001760 A1	20041029	MX2003PA01760	20030227
US2003161980 AA	20030828	US20020083975	20020227
US2010084359 AA	20100408	US20090433633	20090430
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Priority:

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Probable Assignee: TROPICANA PROD INC

Assignee(s): (std): TROPICANA PROD INC

Assignee(s): TROPICANA PRODUCTS INC ; NELSON BRENT S

Inventor(s): (std): NELSON BRENT S ; BRENT NELSON S

Agent(s): MACRAE AND CO; BANNER AND WITCOFF LTD AND ATTORNEYS FOR CLIENT NO 006943

Designated states: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT SE SI SK TR

Title: RECTANGULAR **CONTAINER** WITH COOPERATING VACUUM PANELS AND **RIBS** ON ADJACENT SIDES

Abstract: Source: US2004129669A The present invention provides an improved blow molded **plastic** non-round **container** having generally rectangular **sidewalls** that are adapted for hot-fill applications. The hot-fill **container** has two adjacent sides one with a vacuum panel and the other with a series of **ribs** in the label mounting area on the **sidewalls**. The opposing **sidewalls** are symmetric relative to the vacuum panel and rib shape and placement. The **ribs** and vacuum panel cooperate to resist **container** upon filling and cooling and also improves bumper denting resistance, ease of manufacture and light weight capability.

Classifications:

International (IPC 8-9): B65D1/02 B65D1/42 B65D1/46 B65D23/00 B65D90/02 (Advanced/Invention);

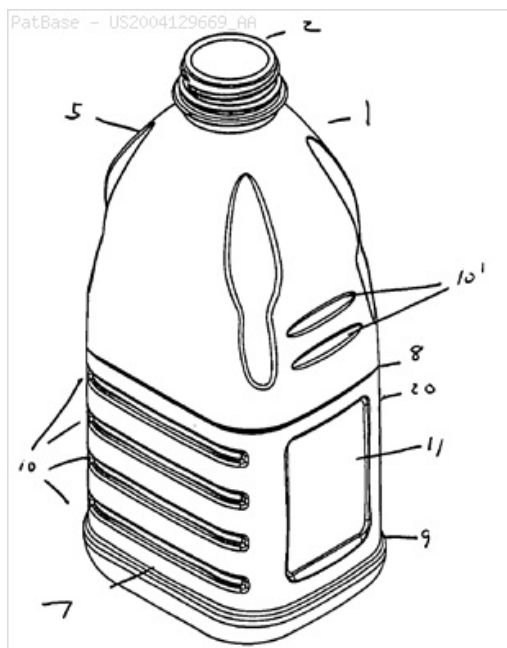
B65D1/02 B65D1/40 B65D23/00 B65D90/02 (Core/Invention); B65D (Subclass/Invention)

International (IPC 1-7): B65D1/42 B65D1/46 B65D23/00 B65D90/02 **CPC:** B65D1/0223 B65D2501/0081 B65D1/42

European: B65D1/02D B65D1/42 L65D501/02Y9

US: 215/373 215/379 215/379S 215/381 215/382 215/383 215/384 215/384S 220/669 220/675 D9/516 D9/542 D9/563 D9/564 D9/570 D9/574

Locarno class: 09/01



Family:

Publication number	Publication date	Application number	Application date
AU2003298855 AA	20040630	AU20030298855	20031204
AU2003298855 AH	20040630	AU20030298855	20031204
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CA2508753 AA	20050603	CA20032508753	20031204
CA2508753 C	20111004	CA20032508753	20031204
MXPA05006048 A1	20060127	MX2005PA06048	20031204
US2004129669 AA	20040708	US20030727042	20031204
US2006151425 AA	20060713	US20050298473	20051212
US2007045222 AA	20070301	US20060476001	20060628
US6974047 BB	20051213	US20030727042	20031204
US7882971 BB	20110208	US20050298473	20051212
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USD536258 S1	20070206	US20060258967F	20060501
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Priority:

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Probable Assignee: GRAHAM PACKAGING CO LP

Assignee(s): (std): GRAHAM PACKAGING CO ; KELLEY PAUL V ; HUNG SEUNGYEOL ; OGG RICHARD ; MELROSE DAVID ; HONG SEUNGYEOL ; GRAHAM PACKAGING CO LP ; DENNER JOHN

Assignee(s): BANK OF NEW YORK MELLON ; DEUTSCHE BANK AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN CO ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS ; GRAHAM PACKAGING COMPANY L P ; GRAHAM PACKAGING COMPANY LP ; REYNOLDS GROUP HOLDINGS INC

Inventor(s): (std): DAVID MELROSE ; HONG SEUNGYEOL ; JOHN DENNER ; PAUL V KELLEY ; RICHARD OGG ; SEUNGYEOL HONG ; TRUDE GREGORY ; DENNER JOHN ; OGG RICHARD K ; OGG RICHARD ; MELROSE DAVID ; KELLEY PAUL V ; KELLEY PAUL ; HUNG SEUNGYEOL ; DENNER JOHN

Agent(s): NORTON ROSE CANADA LLP SENCRL SRL; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE OR SENCRL SRL LLP; VENABLE LLP; JAMES R; KEITH G; KNOBLE YOSHIDA AND DUNLEAVY LLC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

Title: **PLASTIC CONTAINER** HAVING **SIDEWALL RIBS** WITH VARYING DEPTH

Abstract: Source: US2013140264A A **bottle** may have varying depth **ribs** to achieve a balance of strength and rigidity while maintaining hoop strength. The varying depth **ribs** may smoothly transition around the circumference of the **bottle** from a flattened and/or shallow depth rib portion to a deep rib portion. A collection of flattened and/or shallow depth **ribs** act as recessed columns in the body of the **bottle** to resist bending, leaning, crumbling, and/or stretching. The deep rib portions provide hoop strength and make the **bottle** body more rigid and/or stiffer when gripped by a user. A balance may be achieved between of flattened and/or shallow depth **ribs** and deep **ribs** to attain a desired resistance to bending, leaning, and/or stretching while maintaining stiffness in a lightweight **bottle**.

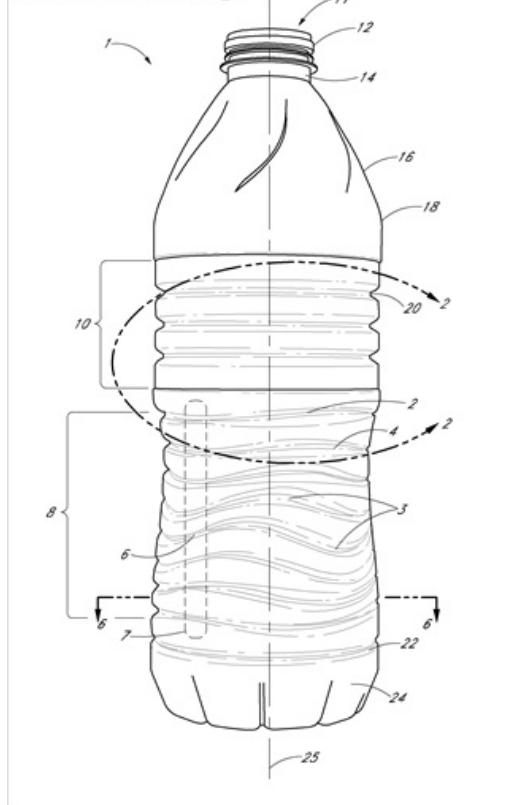
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International (IPC 8-9): B65D1/02 B65D1/26 B65D1/40 B65D1/44 B65D21/08 B65D23/00 B65D8/12 B65D90/02 (Advanced/Invention); B65D41/00 (Core/Invention)

CPC: B65D1/0223 B65D2501/0018 B65D2501/0036 B65D1/44 B65D23/00

US: 215/381 215/383 215/384 220/670 220/675

PatBase - US2013140264_AA



Family:

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Priority:

JP20140545984T 20121204 US20110567086P 20111205 US20120705040 20121204
US20130012841 20130828 WO2012US67795 20121204

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Inventor(s): HANAN JAY CLARKEUS ; PEYKOFF ANDREW DIMITRIUS

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK

SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: **PLASTIC CONTAINER** WITH STRAPPED BASE

Abstract: Source: US2014183156A A **container** may have a base, a **sidewall** connected to the base, a **bell** connected to the **sidewall**, and a finish connected to the **bell**. The base may have strap **ribs** to resist deformation of the base. The **sidewall** may have recessed columns to resist bending, leaning, crumbling, and/or stretching. The strap **ribs** and recessed columns may vertically line up along a central axis of the **container** to communicate forces on the **container** vertically along the **container** to continuously resist deformation in the base and the **sidewall**.

Classifications:

International (IPC 8-9): B65D1/02 B65D1/40 B65D1/42 B65D1/44 B65D1/46 B65D23/00 B65D23/10 B65D8/08 B65D8/12 B65D90/02 (Advanced/Invention);

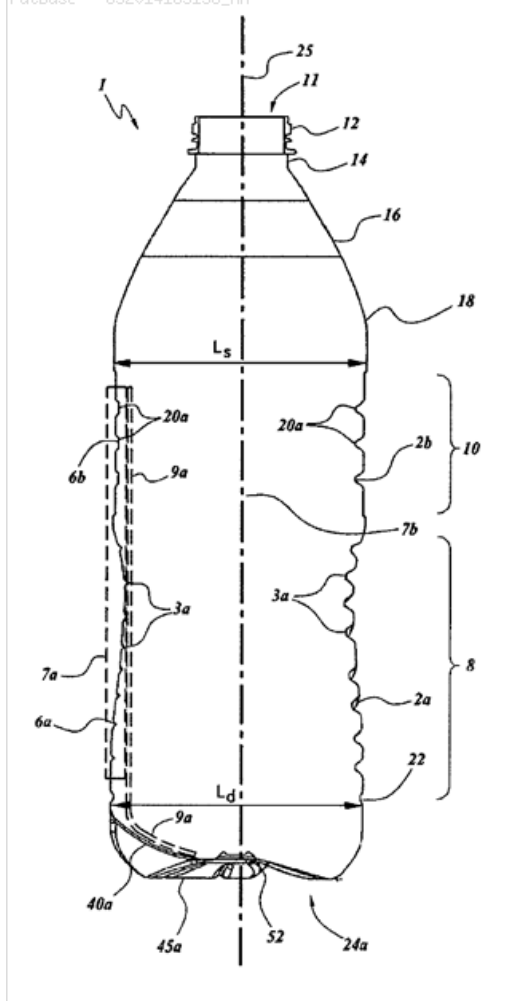
B29C49/06 B29L31/00 (Advanced/Non-invention);

B65D1/02 B65D1/42 B65D8/08 (Core/Invention)

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US: 1/1 215/375 215/377 215/382 220/669

PatBase - US2014183156_AA



Family:

Publication number	Publication date	Application number	Application date
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AU2014370440 AA	20150702	AU20140370440	20140116
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Priority:

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US20140157400 20140116 US20130141224 20131226 US20140157400 20140114
US20150610940 20150130 WO2013US77810 20131226 WO2014US11923 20140116
US20150806489 20150722 US20150817109 20150803

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Assignee(s): (std): HANAN JAY CLARKE ; NIAGARA BOTTLING LLC

Assignee(s): WELLS FARGO BANK NATIONAL ASSOCIATION ADMINISTRATIVE AGENT AS

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Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; OSLER HOSKIN AND HARCOURT LLP;
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JORGE; ANNISA AM BADAR SH LLM; NABILA AM BADAR SH LLM; KAWAGUTI AND PARTNERS; HANI Z;
RUTAN AND TUCKER LLP; SAYED HANI Z

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR
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