

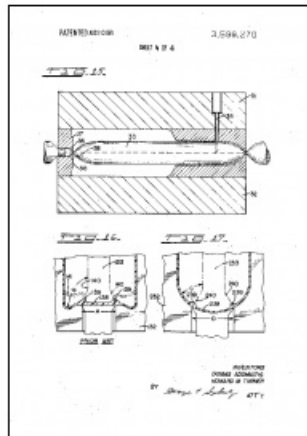
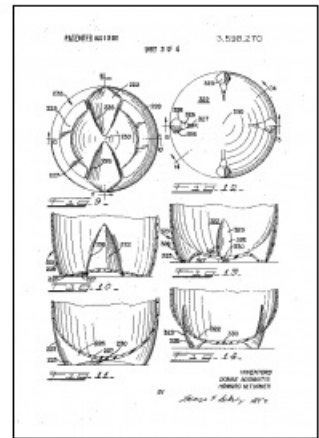
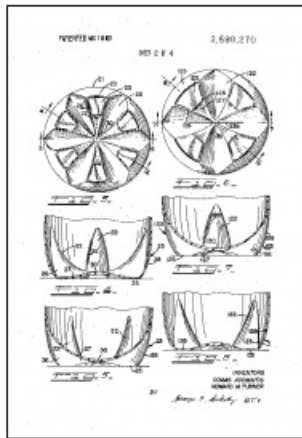
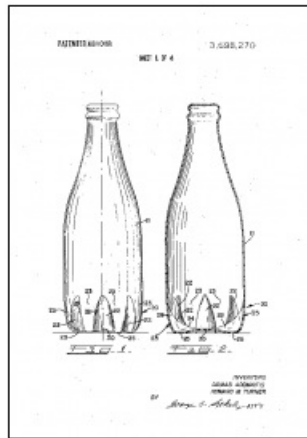
Title:
BOTTOM END STRUCTURE FOR
PLASTIC CONTAINERS**Abstract:**

Source: GB1239531A
1,239,531. Blow-moulding.
CONTINENTAL CAN CO. Inc. 3
Feb., 1970 [14 April, 1969], No.
5167/70. Heading B5A. [Also in
Division B8] In a method of
blow-moulding a plastics, e.g.
polyethylene, bottle having an
integral bottom comprising first
wall portions 22 conforming to
the contour of a hemisphere
and alternating with second wall
portions 23, which define
downwardly-projecting hollow
feet, the end of an extruded
parison forming the bottom is
nipped closed between
opposing die parts to weld said
end along an arcuate line 238.
The arcuate weld-line forms a
central segment of ...

Probable Assignee:
CONTINENTAL CAN CO

Assignee(s):(std):
CONTINENTAL CAN CO ;
CONTINENTAL CAN CY INC ;
CONTINENTAL GROUP

Assignee(s):
THE CONTINENTAL GROUP INC
10017 NEW YORK N Y US ;
CONTINENTAL CAN CY INC TE
NEW YORK V S A ;
CONTINENTAL CAN CO INC ;
CONTINENTAL CAN COMPANY
INC ; CONTINENTAL CAN
COMPANY INC NEW YORK ;
CONTINENTAL CAN COMPANY
INC TE NEW YORK ;
CONTINENTAL CAN CY IN US



Title:

NONEVERTING BOTTOM FOR
THERMOPLASTIC BOTTLES

Abstract:

Source: US3718229A A generally cylindrical, biaxially oriented thermoplastic bottle for bottling liquids under pressure, such as beer, soda and aerosols, having a noneverting bottom under conditions of bottling and use. The bottom of the bottle in the unpressurized state comprises a shell of thermoplastic material having a configuration defined as a series of sequentially connected geometric shapes rotationally symmetrical about the central axis of the bottle starting with (a) about a 90 DEG portion of a circle connected to the generally cylindrical section of the bottle, forming the ...

Probable Assignee:

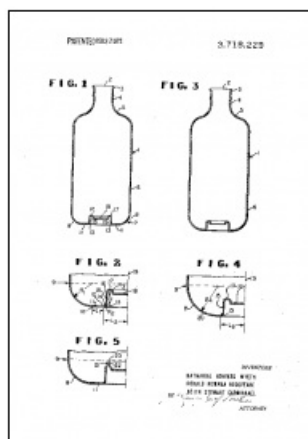
DU PONT

Assignee(s):(std):

DU PONT

Assignee(s):

DU PONT DE NEMOURS ; DU PONT DE NEMOURS CO E I ; DU PONT DE NEMOURS AND CY ; DU PONT DE NEMOURS E I AND CO ; DU PONT E I DE NEMOURS AND CO ; DU PONT DE NEMOURS E AND CO ; DU PONT E I DE NEMOURS AND COMPANY ; E I DU PONT DE NEMOURS AND CO US ; DUPONT DE NEMOURS ; E I DU PONT DE NEMOURS AND CO WILMINGTON DEL V ST ; E I DU PONT DE NEMOURS AND CY WILMINGTON DELAWARE ; E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CY WILMINGTON DELAWARE E U A ; E I DU PONT DE NEMOURS AND CO WILMINGTON DEL V ST A ; WYETH NATHANIEL C ; ROSEVEARE RONALD N ; LESTER JOSEPH T ; DU PONT E I DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND CY WILMINGTON DELAWARE EUA ; CARMICHAEL KEITH S



Title:

Method for blow molding a container having a concave bottom

Abstract:

Source: US4036926A A method of making a concave bottom on a blown thermoplastic container. A blowable pre-form is initially expanded against a composite mold surface defined by the end faces of a plurality of concentric tubes surrounding a central actuating rod. The rod and the tubes are initially telescopically positioned to define a composite concave surface, so that a first convex bottom is blown. Subsequently, the rod and tubes are actuated telescopically to progressively invert the convex bottom to a concave shape. The end faces of the tubes may be grooved to define reinforcing ribs ...

Probable Assignee:

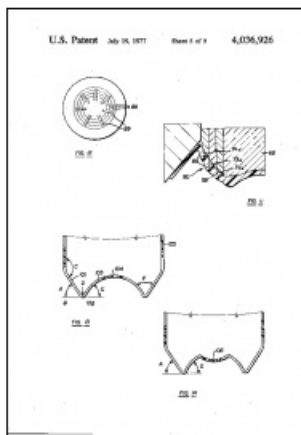
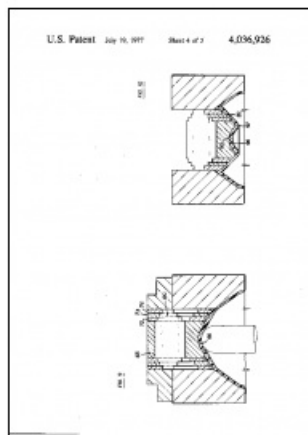
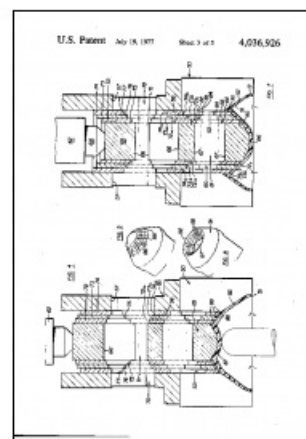
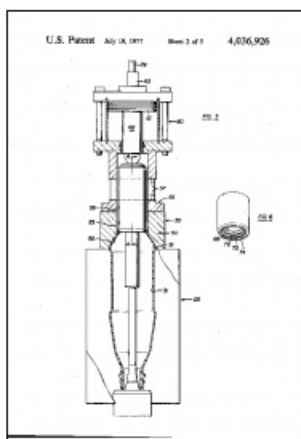
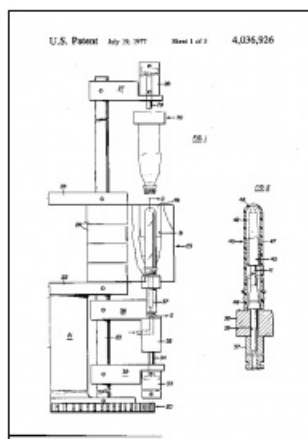
OWENS ILLINOIS PLASTIC PRODUCTS INC A CORP OF DE

Assignee(s):(std):

OWENS ILLINOIS INC

Assignee(s):

OWENS ILLINOIS PLASTIC PRODUCTS INC ; OWENS ILLINOIS PLASTIC PRODUCTS INC A CORP OF DE



Title:
CONCENTRIC RIBBED
PREFORM AND BOTTLE MADE
FROM SAME

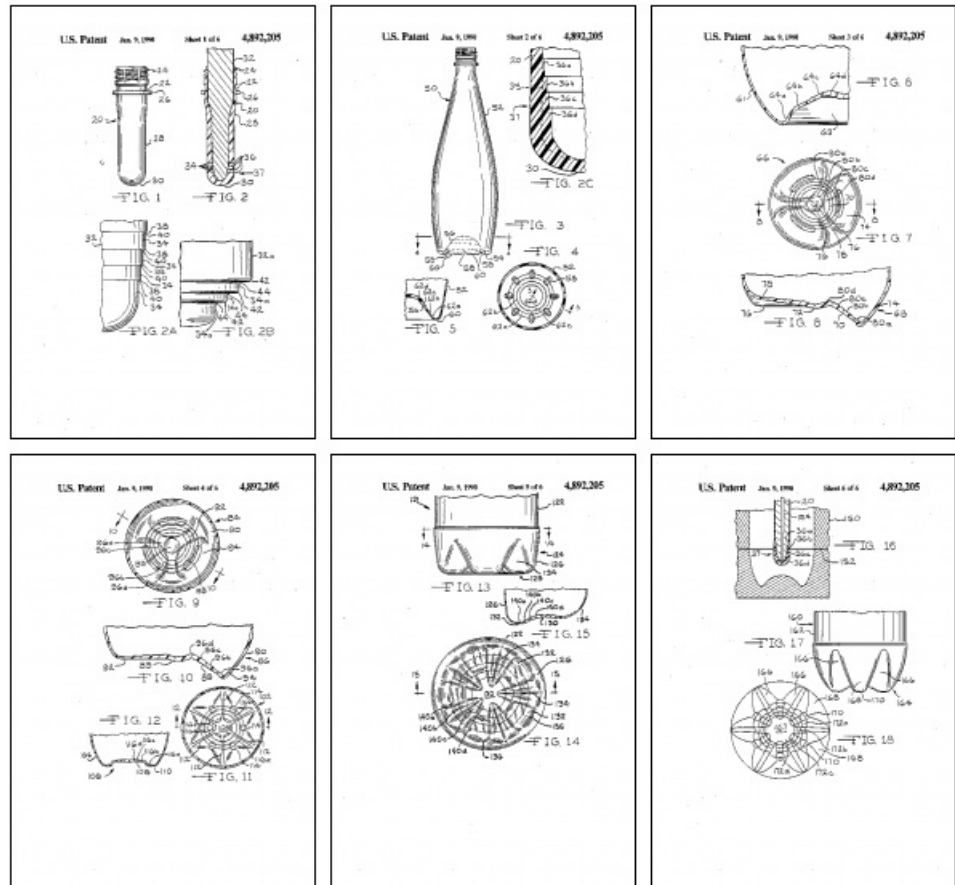
Abstract:

Source: US4892205A An improved preform is disclosed for molding plastic containers having a self-supporting base structure. The preform has a reinforcing section of concentric annular ribs near its closed end. The wall thickness of the preform is increased in the reinforcing section by a plurality having an increasing thickness in a direction toward the closed end of the preform. When blow molded into a final container, these concentric ribs form annular reinforcing ribs on the inner surface of the container base. These ribs are substantially concentric about the longitudinal axis of the ...

Probable Assignee:
SCHMALBACH LUBECA AG

Assignee(s):(std):
HOOVER UNIVERSAL

Assignee(s):
HOOVER UNIVERSAL INC ;
HOOVER UNIVERSAL INC 825
VICTORS WAY ANN ARBOR MI
; HOOVER UNIVERSAL INC 825
VICTORS WAY ANN ARBOR MI
48104 A MI CORP ;
SCHMALBACH LUBECA AG



Title:

Plastic container for pressurized fluids

Abstract:

Source: US4978015A A blow-molded plastic container having a body comprising a neck portion, a generally cylindrical sidewall portion and a bottom structure. The bottom structure comprises a central portion, a plurality of ribs extending downwardly from the bottle sidewall to the central portion, and a plurality of feet extending below the central portion from the sidewall portion. The ribs are defined by an upper curvilinear surface and, in cross-section are of an substantially U-shape having a relatively tight radius, the upper rib surfaces lying on a generally hemispherical curvature in ...

Probable Assignee:

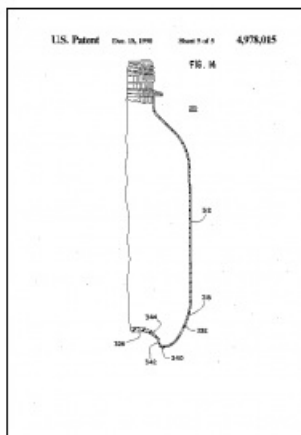
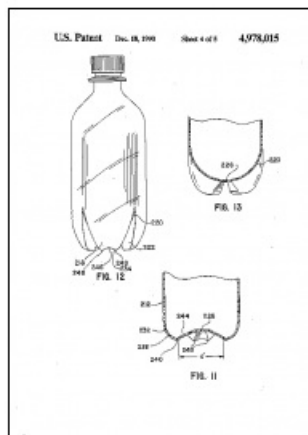
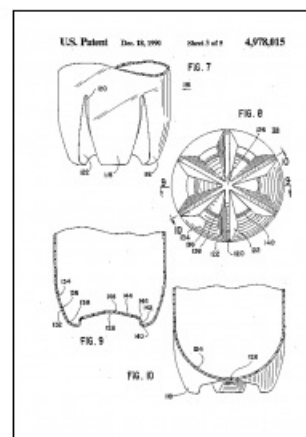
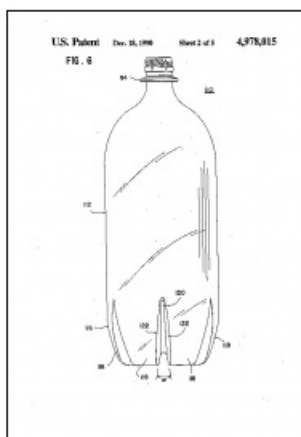
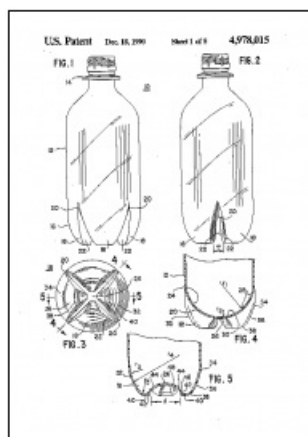
INT PACKAGING
TECHNOLOGIES LLC

Assignee(s):(std):

INT PACKAGING
TECHNOLOGIES LLC ;
INTERNAT PACKAGING
TECHNOLOGIE ; NORTH
AMERICAN CONTAINER INC ;
NOOSU AMERIKAN KONTEINAA
INC ; INT PACKAGING
TECHNOLOGIE

Assignee(s):

INT PACKAGING
TECHNOLOGIES ;
INTERNATIONAL PACKAGING
TECHNOLOGIES LLC ; WALKER
LARRY D ; INTERNATIONAL
PACKAGING TECHNOLOGIES



Title:

Wide stance footed bottle

Abstract:

Source: US5024340A A blow-molded bottle of thermoplastic resin has a hollow body with a generally cylindrical side wall rotationally symmetric about a longitudinal axis of the bottle and an integral base merging with the side wall. The base is defined by an outer surface having a plurality of arcuately extending downward projections separated from each other by hemispherical segments extending from the cylindrical side wall to the longitudinal axis of the bottle. Each of the arcuately extending downward projections has a first inclined portion contiguous to the longitudinal axis, a second ...

Probable Assignee:

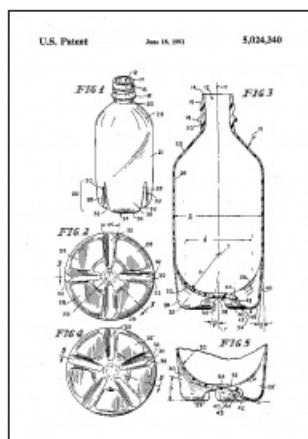
CONSTAR PLASTICS INC

Assignee(s):(std):

CONSTAR PLASTICS INC ;
SEUERU PURASUCHITSUKUSU
INC ; SEWELL PLASTICS ;
SEWELL PLASTICS INC

Assignee(s):

CONSTAR PLASTICS INC
ATLANTA GA US ; LYNN
STEPHEN R ; ALBERGHINI
ALFRED C ; BRUNSON DAVID
A



Title:

Footed hot-fill container

Abstract:

Source: US5133468A A blow-molded container of thermoplastic resin has a hollow body with a generally cylindrical side wall portion rotationally symmetric about a longitudinal axis of the container. A shoulder portion integrally joins the side wall portion to a finish. An integral base merging with the side wall is defined by an outer surface comprising a plurality of downward projections separated from each other by generally arcuate segments extending essentially from the cylindrical side wall to the longitudinal axis of the container. The shoulder and sidewall portions are tempered during ...

Probable Assignee:

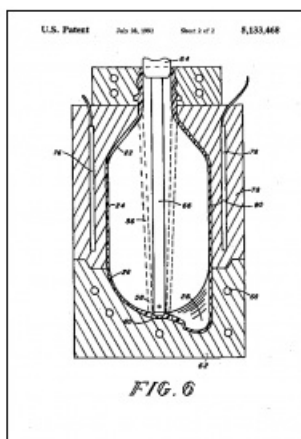
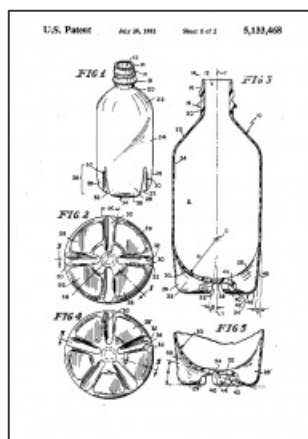
CONSTAR PLASTICS INC

Assignee(s):(std):

CONSTAR PLASTICS INC ;
KONSUTAA PLAST INC

Assignee(s):

LYNN STEPHEN R ; SEWELL
PLASTICS INC ; BRUNSON
DAVID A



Title:

Freestanding container with improved combination of properties

Abstract:

Source: US5427258A A freestanding container base having an improved combination of properties in regard to creep resistance, stress crack resistance, impact strength, weight, standing stability and formability. The container base has a substantially hemispherical bottom wall which includes four radiating ribs, and four legs extending downwardly from the bottom wall between the ribs and each of which terminates in a foot. Each rib has a rib wall forming part of the substantially hemispherical bottom wall and having an angular extent of from about 15 DEG to about 30 DEG for enhanced ...

Probable Assignee:

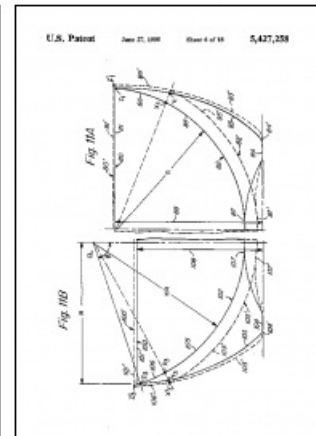
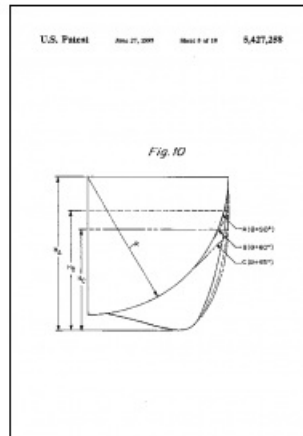
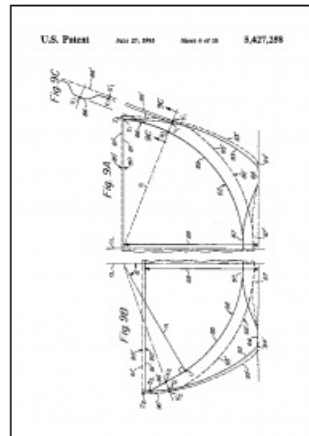
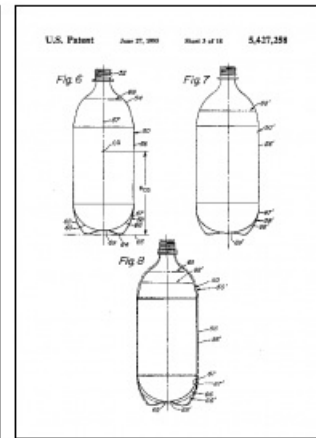
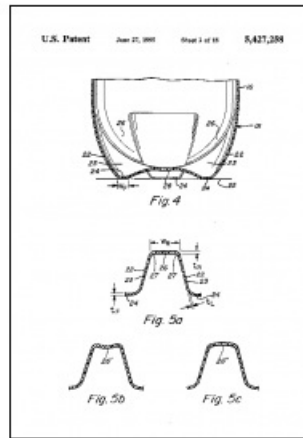
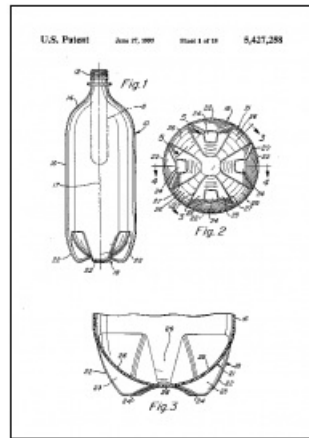
GRAHAM PACKAGING PET TECHNOLOGIES INC

Assignee(s):(std):

CONTINENTAL PET TECHNOLOGIES

Assignee(s):

DEUTSCHE BANK AG ; GRAHAM PACKAGING PET TECHNOLOGIES INC ; GRAHAM PACKAGING CO ; CONTINENTAL PET TECHNOLOGIES INC ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH AG ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN CO ; GRAHAM PACKAGING CO LP ; CONTINENTAL PET TECHNOLOGIES INC FLORENCE KY US ; DEUTSCHE BANK CAYMAN ISLANDS BRANCH SECOND LIEN COLLATERAL AGENT AG AS ; CONTINENTAL PET TECHNOLOGIES INC US ; REYNOLDS GROUP HOLDINGS INC ; KRISHNAKUMAR SUPPAYAN M ; BANK OF NEW YORK MELLON ; COLLETTE WAYNE N ; CONTINENTAL PET TECHNOLOGIE INC



12 more images available

Title:

Plastic bottle with a self supporting base structure

Abstract:

Source: US5507402A A plastics container includes a neck and an outlet opening, a container body and a base; the base comprising a plurality of circumferentially spaced legs, each leg terminating in a foot portion on which the container is adapted to stand wherein each leg is provided with at least one longitudinally inwardly extending crease. Preferably each leg is provided with a single crease which extends downwardly and inwardly at least to the extent necessary so to substantially divide the foot portion of each leg into two separate support portions on which the container is adapted ...

Probable Assignee:

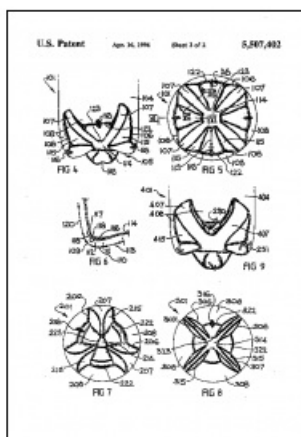
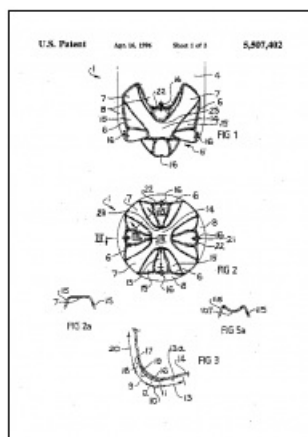
CONTINENTAL PET
TECHNOLOGIES INC

Assignee(s):(std):

A C I OPERATIONS ; ACI
OPERATION PTY LTD

Assignee(s):

ACI OPERATIONS PTY LTD ;
ACI Operations Pty. Ltd. ;
CLARK ROGER WILLIAM ;
CONTINENTAL PET
TECHNOLOGIES INC ;
DEUTSCHE BANK AG ; GRAHAM
PACKAGING CO ; DEUTSCHE
BANK CAYMAN ISLANDS
BRANCH AG ; DEUTSCHE BANK
CAYMAN ISLANDS BRANCH
SECOND LIEN CO ; GRAHAM
PACKAGING CO LP ; GRAHAM
PACKAGING PET
TECHNOLOGIES INC



Title:

Wide stance footed bottle with radially non-uniform circumference footprint

Abstract:

Source: US5549210A Hollow plastic blow-molded containers have a tubular bodies and integral improved, self-supporting bases. The bases have distinctly shaped supporting feet disposed on legs at or near the periphery of the container bottom. The container legs extend outwardly and downwardly from the central region of the container on the inner side of the container bottom and extend downwardly from the container sidewalls on the outer side and are separated by ribs which coverage in a central region at the base of the container. At the terminal end of each of the container legs, ...

Probable Assignee:

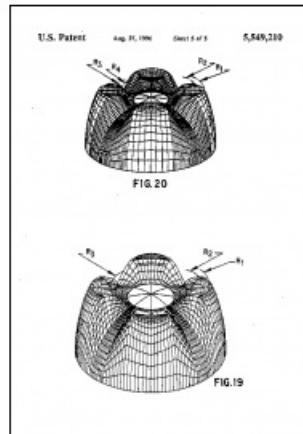
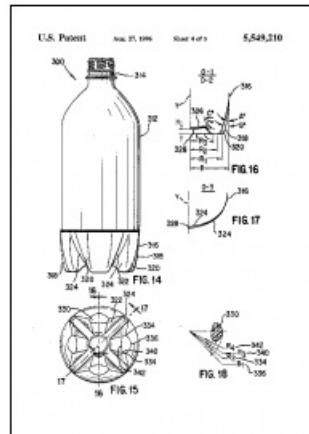
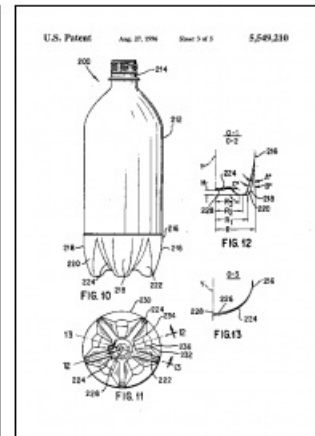
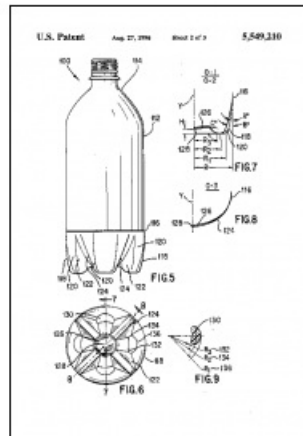
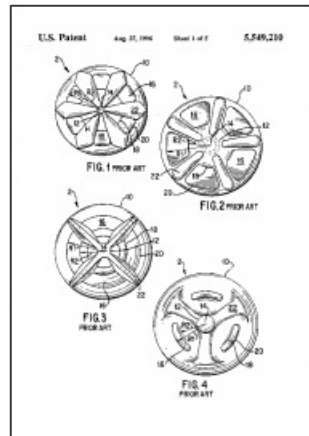
BALL CORP

Assignee(s):(std):

BALL CORP ; BRUNSWICK CONTAINER CORP

Assignee(s):

CHENG JIZU JOHN



Title:

PLASTIC BLOW MOLDED
CONTAINER HAVING STABLE
FREESTANDING BASE

Abstract:

Source: US6019236A A plastic blow molded container (10) is disclosed as including a freestanding base structure (20) that is constructed with a plurality of alternating hollow legs (22) and curved ribs (34), and a hub (41) from which the legs and ribs extend radially with a construction that provides good stability against tipping as well as the capability of withstanding internal pressure. The hollow leg (22) has lower flat feet (24) with curved outer extremities that extend circumferentially for 45 to 65 percent of the extent about a central axis A of the container to provide good ...

Probable Assignee:

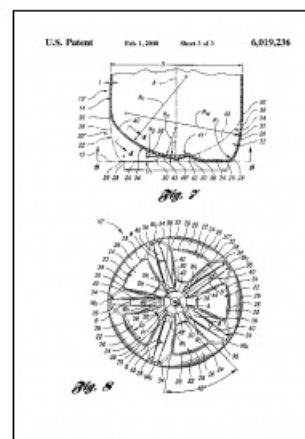
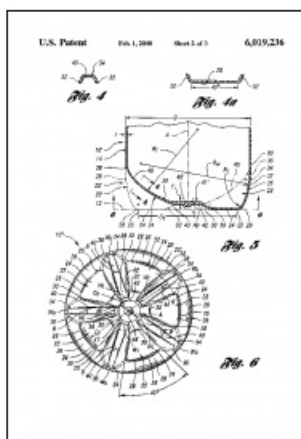
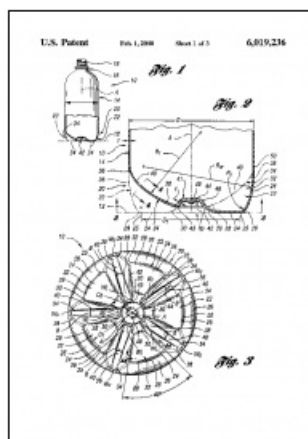
PLASTIPAK PACKAGING INC

Assignee(s):(std):

PLASTIPAK PACKAGING INC ;
SLAT WILLIAM A ; PLASTIPARK
PACKAGING INC

Assignee(s):

PLASTIPAK PACKAGING INC
PLYMOUTH ; WELLS FARGO
BANK NA ADMINISTRATIVE
AGENT AS ; PLASTIPAK
HOLDINGS INC ; TABB REALTY
LLC ; WHITELINE EXPRESS LTD
; CLEAN TECH INC ;
COMERICA BANK ; COMERICA
BANK AGENT AS ; COMERICA
BANK AS AGENT



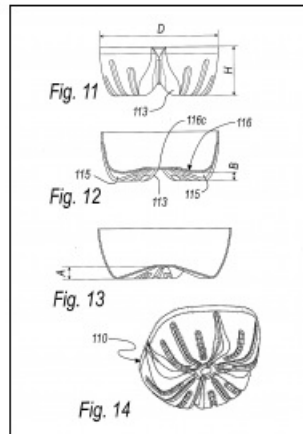
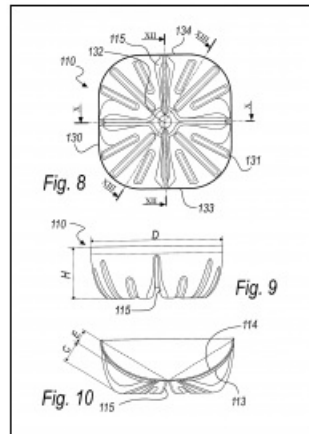
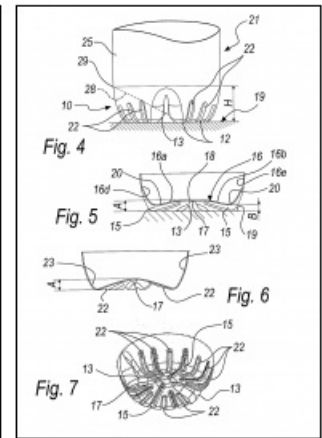
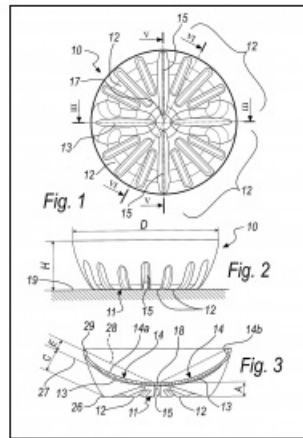
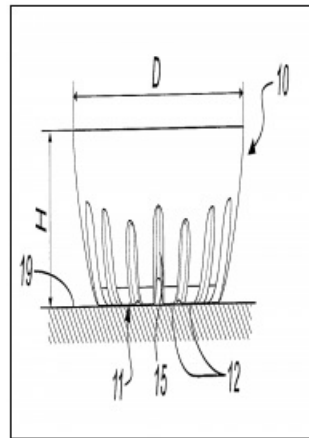
Title:
PLASTIC BOTTLE BASE

Abstract:
Source: US2007262046A A bottle base made of plastic material, particularly for beverages, of the type which has, on its bottom, reinforcement recesses. The reinforcement recesses comprise a recess which runs along a transverse reference dimension of the base; the recess forms a main rib inside the base.

Probable Assignee:
ACQUA MINERALE S
BENEDETTO SPA

Assignee(s):(std):
ACQUA MINERALE S
BENEDETTO S P ; ACQUA
MINERALE S BENEDETTO S P A
; ACQUA MINERALE S
BENEDETTO SPA ; ZOPPAS
ENRICO ; SAN BENEDETTO
ACQUA MINERALE ; ACQUA
MINERALE S BENEDETTO ;
AKVA MINERALE S BENEDETTO
S P

Assignee(s):
AKVA MINERALE S BENEDETTO
SPA ; AKVA MINERALE S
BENEDETTO S P A ; ACQUA
MINERALE S BENEDETTO S P
A ; ACQUA MINERALE SAN
BENEDETTO S P A ; ACQUA
MINERALE SAN BENEDETTO S P
A SCORZE ; ACQUA MINERALE
SAN BENEDETTO SPA



Title:
PLASTIC CONTAINER HAVING
A DEEP-SET INVERTIBLE BASE
AND RELATED METHODS

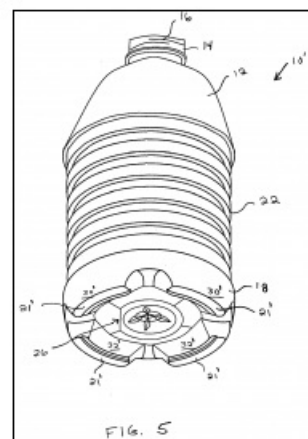
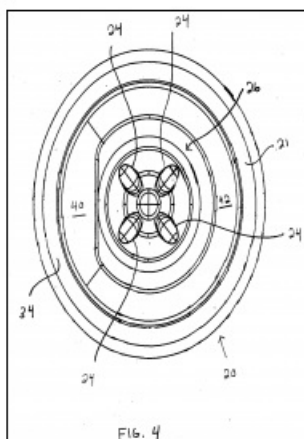
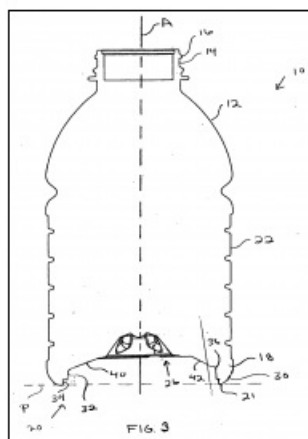
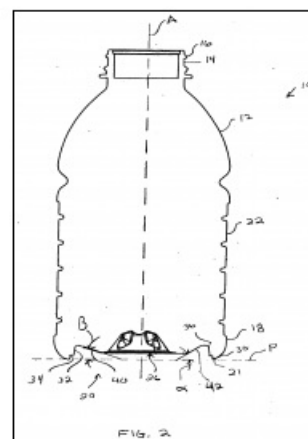
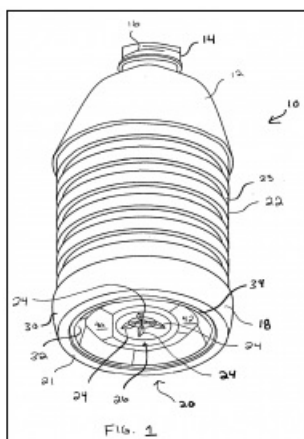
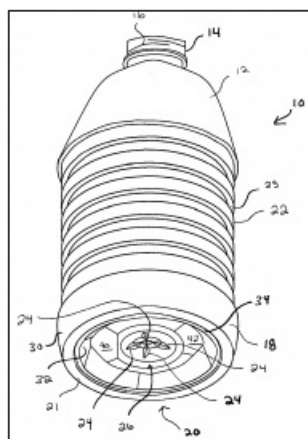
Abstract:

Source: US2008047964A A plastic container comprises an upper portion including a finish defining an opening into the container, a lower portion including a base defining a standing surface, a sidewall extending between the upper portion and the lower portion, the sidewall defining a longitudinal axis, and at least one substantially transversely-oriented pressure panel located in the lower portion. The pressure panel is movable between an outwardly-inclined position and an inwardly-inclined position to compensate for a change of pressure inside the container. The standing surface defines a ...

Probable Assignee:
CO2PAC LTD

Assignee(s):(std):
CO2PAC ; CO2PAC LTD ;
DENNER JOHN ; TRUDE
GREGORY ; MELROSE DAVID ;
KELLEY PAUL

Assignee(s):
REYNOLDS GROUP HOLDINGS
INC ; GRAHAM PACKAGING CO
LP ; CO2PAC LTD ; BANK OF
NEW YORK MELLON



5 more images available

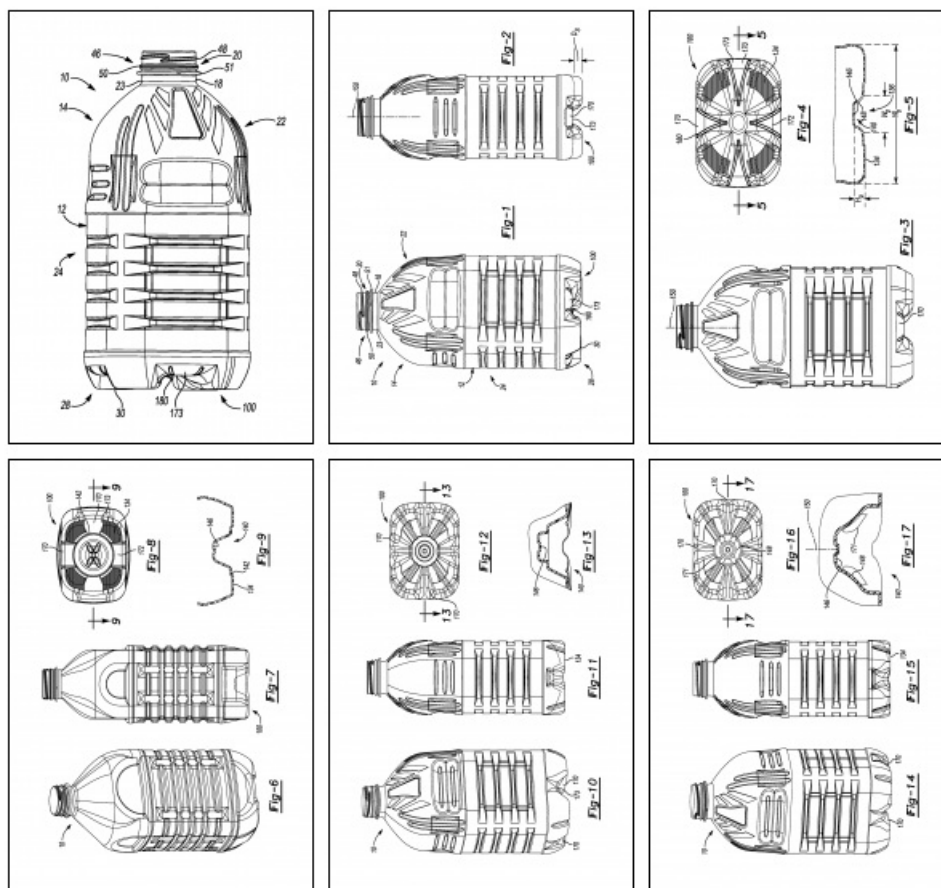
Title:
LIGHTWEIGHT CONTAINER
BASE**Abstract:**

Source: US2014197127A A container defining a longitudinal axis and a transverse direction that is transverse with respect to the longitudinal axis is disclosed. The container includes a finish, a sidewall portion extending from the finish, and a base portion extending from the sidewall portion and enclosing the sidewall portion to form a volume therein for retaining a commodity. The base portion has a contact surface for supporting the container. The container also includes at least one strap extending along the base portion in the transverse direction. The strap defines a strap surface, and ...

Probable Assignee:
AMCOR GROUP GMBH

Assignee(s):(std):
AMCOR LTD ; HAN PEIDONG ;
LANE MICHAEL T ; PAEGEL
WALT ; PAEGEL WALTER ;
AMCOR GROUP GMBH

Assignee(s):
AMCOR LIMITED



8 more images available

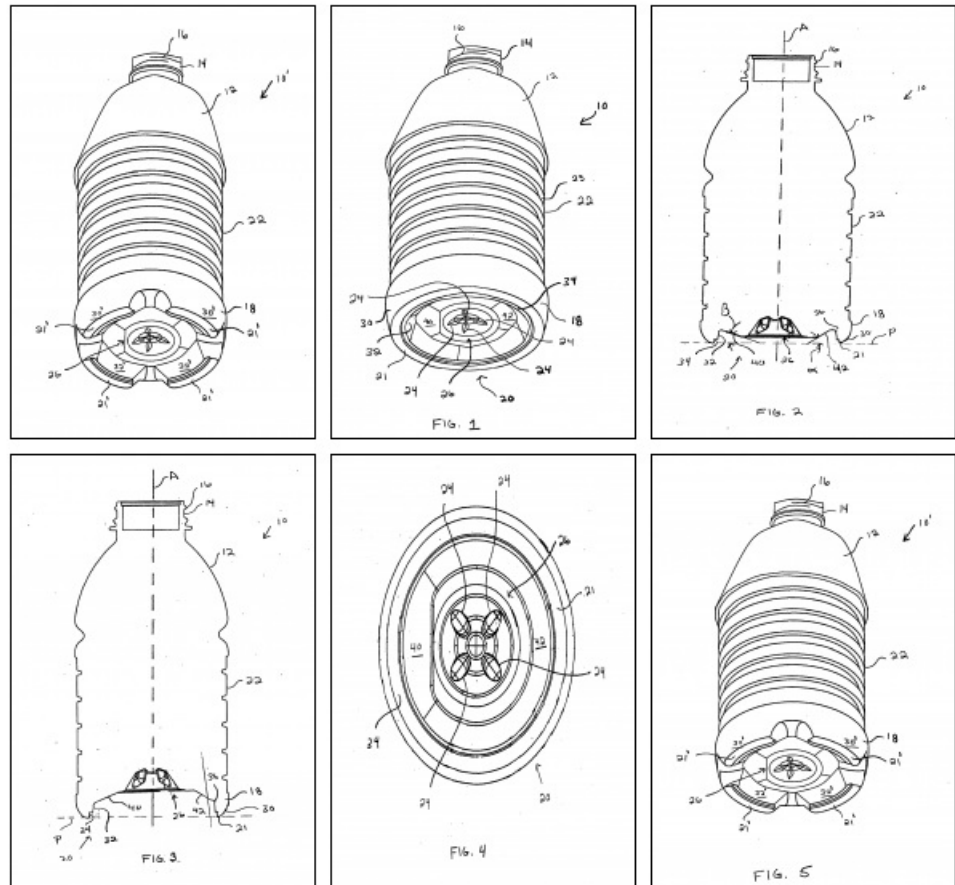
Title:
PLASTIC CONTAINER HAVING
A DEEP-SET INVERTIBLE BASE
AND RELATED METHODS

Abstract:

Source: US2014069937A A plastic container comprises an upper portion including a finish defining an opening into the container, a lower portion including a base defining a standing surface, a sidewall extending between the upper portion and the lower portion, the sidewall defining a longitudinal axis, and at least one substantially transversely-oriented pressure panel located in the lower portion. The pressure panel is movable between an outwardly-inclined position and an inwardly-inclined position to compensate for a change of pressure inside the container. The standing surface defines a ...

Probable Assignee:
C02PAC LTD

Assignee(s):(std):
C02PAC LTD ; C02PAC LTD ;
DENNER JOHN ; TRUDE
GREGORY ; MELROSE DAVID ;
KELLEY PAUL



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