Title (en)
POLYESTER CONTAINER FOR HOT FILL LIQUIDS

Publication
EP 0348147 A3 19901024 (EN)

Application
EP 89306216 A 19890620

Priority
US 21146488 A 19880624

Abstract (en)
[origin: EP0348147A2] A polyester container (10) particularly adapted for hot fill applications having an improved base (16) configuration. The container base (16) has an outer circular ring (18) defining a support plane (20) for the container with a central outwardly concave dome portion (22) therein. The dome portion includes a number of reinforcing rings (40, 44, 50, 54) formed along concentric tangent lines. In accordance with several embodiments, the circular rings are uninterrupted, whereas in other embodiments, the rings are interrupted at regular angular intervals with relatively smooth zones or hemispherical pockets therebetween. The containers provide excellent mechanical stability in response to positive and negative pressure within the container, and also in response to unrelaxed retractive stresses within the container material which tend to cause deformation of the container, particularly when exposed to elevated temperatures during demolding of the container and during the hot fill cycle.

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B65D 1/02

IPC 8 full level
B65D 1/02 (2006.01)

CPC (source: EP KR)
B65D 1/0276 (2013.01 - EP); **B65D 25/24** (2013.01 - KR)

Citation (search report)
- [X] FR 2382373 A1 19780929 - SOLVAY [BE]
- [Y] US 4732292 A 19880322 - SUPIK HELMUTH [DE]
- [X] FR 2379443 A1 19780901 - SOLVAY [BE]

Cited by
EP2703307A4; US9617028B2

Designated contracting state (EPC)
AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)
EP 0348147 A2 19891227; **EP 0348147 A3 19901024**; AU 3666889 A 19900104; AU 626878 B2 19920813; CA 1327323 C 19940301; JP H0285143 A 19900326; KR 910000484 A 19910129; MX 170183 B 19930810

DOCDB simple family (application)
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