

Title (en)

A CONTAINER HAVING PRESSURE RESPONSIVE PANELS

Title (de)

BEHÄLTER VERSEHEN MIT AUF DRUCK REAGIERENDEN WANDTEILEN

Title (fr)

RECIPIENT AVEC PANNEAU REAGISSANT A LA PRESSION

Publication

EP 1163161 A4 20020605 (EN)

Application

EP 00905491 A 20000224

Priority

- NZ 0000019 W 20000224
- NZ 33437299 A 19990225

Abstract (en)

[origin: WO0050309A1] A container (1), suitable as a hot-fill container, includes a controlled deflection flex panel (3) which may invert and flex under pressure, such as hot-fill conditions, to avoid deformation and permanent buckling of the container (1). The flex panel (3) includes an initiator portion (8) which has a lesser projection than the remainder of the flex panel (3) and initiates deflection of the flex panel (3).

IPC 1-7

B65D 23/12; **B65D 90/02**

IPC 8 full level

B65D 1/02 (2006.01); **B65D 23/12** (2006.01); **B65D 79/00** (2006.01); **B65D 90/02** (2006.01)

CPC (source: EP KR US)

B65D 1/0223 (2013.01 - EP); **B65D 5/0005** (2013.01 - KR); **B65D 79/0084** (2020.05 - EP KR US); **B65D 2501/0027** (2013.01 - EP); **B65D 2501/0036** (2013.01 - EP); **B65D 2501/0081** (2013.01 - EP)

Citation (search report)

- [XY] EP 0505054 A1 19920923 - HOOVER UNIVERSAL [US]
- [XY] FR 2187617 A1 19740118 - SAINT GOBAIN CARNAUD [FR], et al
- [X] US 5303834 A 19940419 - KRISHNAKUMAR SUPPAYAN M [US], et al
- [X] US 5704503 A 19980106 - KRISHNAKUMAR SUPPAYAN M [US], et al
- [Y] US 5341946 A 19940830 - VAILLIENCOURT DWAYNE G [US], et al
- [A] FR 2743050 A1 19970704 - GALLAY SA [CH]
- See also references of WO 0050309A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU

DOCDB simple family (publication)

WO 0050309 A1 20000831; AR 022753 A1 20020904; AT E361237 T1 20070515; AU 2004205217 A1 20040923; AU 2004205217 B2 20080731; AU 2004205217 C1 20090108; AU 2702500 A 20000914; AU 777222 B2 20041007; BG 105838 A 20020628; BG 65326 B1 20080229; BR 0008565 A 20020129; BR 0008565 B1 20110322; CA 2371894 A1 20000831; CA 2371894 C 20070529; CN 1264728 C 20060719; CN 1345280 A 20020417; CO 5231203 A1 20021227; CZ 20013074 A3 20020814; CZ 299585 B6 20080910; DE 60034666 D1 20070614; DE 60034666 T2 20071227; DK 1163161 T3 20070910; EP 1163161 A1 20011219; EP 1163161 A4 20020605; EP 1163161 B1 20070502; ES 2286007 T3 20071201; GC 0000184 A 20060329; GE P20053578 B 20050725; HK 1045974 A1 20021220; HK 1045974 B 20061117; HU 226883 B1 20100128; HU P0200299 A2 20020629; HU P0200299 A3 20030528; JP 2002537195 A 20021105; JP 4630460 B2 20110209; KR 100856838 B1 20080905; KR 20010105357 A 20011128; MX PA01008641 A 20030624; NZ 513783 A 20010928; PE 20001606 A1 20010125; PL 190891 B1 20060228; PL 350424 A1 20021216; PT 1163161 E 20070820; RU 2283264 C2 20060910; SK 12182001 A3 20020404; SK 287003 B6 20090907; TW I235127 B 20050701; ZA 200106946 B 20021102

DOCDB simple family (application)

NZ 0000019 W 20000224; AR P000100811 A 20000225; AT 00905491 T 20000224; AU 2004205217 A 20040825; AU 2702500 A 20000224; BG 10583801 A 20010823; BR 0008565 A 20000224; CA 2371894 A 20000224; CN 00805721 A 20000224; CO 00013551 A 20000225; CZ 20013074 A 20000224; DE 60034666 T 20000224; DK 00905491 T 20000224; EP 00905491 A 20000224; ES 00905491 T 20000224; GC P2000543 A 20000226; GE AP2000004530 A 20000224; HK 02107535 A 20021017; HU P0200299 A 20000224; JP 2000600899 A 20000224; KR 20017010859 A 20010824; MX PA01008641 A 20000224; NZ 51378300 A 20000224; PE 0001552000 A 20000225; PL 35042400 A 20000224; PT 00905491 T 20000224; RU 2001126046 A 20000224; SK 12182001 A 20000224; TW 89103289 A 20000224; ZA 200106946 A 20010822