

Title (en)

Easily openable closure for a retortable container

Title (de)

Leicht zu öffnender Verschluss für einen sterilisierbaren Behälter

Title (fr)

Fermeture à ouverture facile pour un conteneur stérilisable

Publication

EP 1584567 A3 20061102 (EN)

Application

EP 04257809 A 20041215

Priority

US 75175604 A 20040105

Abstract (en)

[origin: US2005145630A1] A retortable, easily openable closure of the type having a metal end and a membrane closure heat-sealed thereto, wherein the metal end has a coating of a heat-seal composition comprising a food-compatible metal-coating composition blended with polypropylene. The polypropylene disperses within the food-compatible metal-coating composition during curing of the coating on the metal end such that an outer surface of the coating defines a multitude of separate, spaced islands of polypropylene dispersed within the food-compatible metal-coating composition so as to form bonding sites. The membrane closure's lower surface has a heat-seal layer of polypropylene for sealing to the coating on the metal end.

IPC 8 full level

B65D 17/50 (2006.01); **B65D 77/20** (2006.01); **B32B 15/085** (2006.01); **B65D 53/00** (2006.01); **B65D 53/04** (2006.01); **B65D 65/40** (2006.01)

CPC (source: EP US)

B65D 17/502 (2013.01 - EP US); **B65D 2517/0013** (2013.01 - EP US); **B65D 2517/5008** (2013.01 - EP US); **B65D 2517/5013** (2013.01 - EP US); **B65D 2517/5032** (2013.01 - EP US); **B65D 2517/5048** (2013.01 - EP US); **B65D 2517/5056** (2013.01 - EP US)

Citation (search report)

- [A] US 5069355 A 19911203 - MATUSZAK JOHN J [US]
- [A] US 4270665 A 19810602 - KUNIMOTO GO, et al
- [A] WO 9416963 A1 19940804 - POLYSTAR PACKAGING INC [US], et al

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US9617056B2; US10017313B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

US 2005145630 A1 20050707; AU 2004235675 A1 20050721; AU 2004235675 B2 20070201; BR PI0500055 A 20050906; CA 2489218 A1 20050705; EC SP055526 A 20051122; EP 1584567 A2 20051012; EP 1584567 A3 20061102; JP 2005231741 A 20050902; MX PA05000292 A 20050819

DOCDB simple family (application)

US 75175604 A 20040105; AU 2004235675 A 20041207; BR PI0500055 A 20050105; CA 2489218 A 20041203; EC SP055526 A 20050105; EP 04257809 A 20041215; JP 2005000557 A 20050105; MX PA05000292 A 20050104