

Title (en)

Plastic lid for blow moulded plastic barrels.

Title (de)

Kunststoffdeckel für blasgeformte Kunststoffässer.

Title (fr)

Couvercle en plastique pour fûts moulés par soufflage.

Publication

EP 0424897 B1 19940914 (DE)

Application

EP 90120363 A 19901024

Priority

DE 3935693 A 19891026

Abstract (en)

[origin: US5074428A] Such synthetic resin lids comprise an outer rim (4) encompassing the barrel neck (3) and an inner rim (5) entering into the barrel neck (3) and projecting beyond the lid bottom (6) below the barrel opening, as well as a sealing ring inserted between the outer rim (4) of the lid and the inner rim (5) of the lid. This sealing ring is urged by means of a clamping ring (10) or tightening wire against the opening rim (14) of the barrel neck (3), the clamping ring (10) or tightening wire extending over a flange (110 or flange sections molded to the outer rim (4) of the lid at the bottom and extending underneath a solid border (120 which latter protrudes radially toward the outside at a spacing below the barrel opening from the barrel wall. This border can be designed as a continuously extending flange or can be subdivided into flange sections. An axially projecting annular web (8) is molded to the base of an annular chamber (7) formed by the outer and inner rims (4 and 5, respectively) of the lid. This annular web, when the lid (1) is closed, transmits axial forces caused by stacking, dropping, etc. directly into the barrel neck (3). Sealing rings (13) are arranged on both sides of the annular web (8) which rings, when the lid (1) is closed, rest with pretensioning on the opening rim (14) of the barrel neck (3).

IPC 1-7

B65D 43/06; **B65D 1/16**; **B65D 1/46**

IPC 8 full level

B65D 1/16 (2006.01); **B65D 1/46** (2006.01); **B65D 43/02** (2006.01); **B65D 43/06** (2006.01); **B65D 45/32** (2006.01); **B65D 53/02** (2006.01)

CPC (source: EP US)

B65D 43/0218 (2013.01 - EP US); **B65D 45/32** (2013.01 - EP US); **B65D 2543/00092** (2013.01 - EP US); **B65D 2543/00296** (2013.01 - EP US); **B65D 2543/00416** (2013.01 - EP US); **B65D 2543/005** (2013.01 - EP US); **B65D 2543/00537** (2013.01 - EP US); **B65D 2543/00555** (2013.01 - EP US); **B65D 2543/00972** (2013.01 - EP US)

Cited by

EP0602553A3; AU662329B2; DE4126784C2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GR IT LI LU NL SE

DOCDB simple family (publication)

US 5074428 A 19911224; AT E111410 T1 19940915; CA 2028539 A1 19910427; CN 1023467 C 19940112; CN 1051703 A 19910529; CS 519290 A3 19920318; DE 3937613 A1 19910502; DE 59007130 D1 19941020; DE 9011590 U1 19901108; DK 0424897 T3 19950213; EP 0424897 A2 19910502; EP 0424897 A3 19920408; EP 0424897 B1 19940914; ES 2059953 T3 19941116; GB 2238043 A 19910522; GB 2238043 B 19931020; GB 9023308 D0 19901205; IE 64405 B1 19950809; IE 903841 A1 19910508; JP H03212358 A 19910917; JP H0737267 B2 19950426; NO 179742 B 19960902; NO 179742 C 19961211; NO 904631 D0 19901025; NO 904631 L 19910429; PL 164534 B1 19940831; PT 95679 A 19910913; PT 95679 B 19980731; RU 1801096 C 19930307; SK 278608 B6 19971105; YU 199290 A 19940624; YU 47803 B 19960109; ZA 908116 B 19910731

DOCDB simple family (application)

US 60380990 A 19901026; AT 90120363 T 19901024; CA 2028539 A 19901025; CN 90108543 A 19901025; CS 519290 A 19901024; DE 3937613 A 19891111; DE 59007130 T 19901024; DE 9011590 U 19900809; DK 90120363 T 19901024; EP 90120363 A 19901024; ES 90120363 T 19901024; GB 9023308 A 19901025; IE 384190 A 19901025; JP 28690490 A 19901024; NO 904631 A 19901025; PL 28741990 A 19901019; PT 9567990 A 19901025; SK 241090 A 19901024; SU 4831422 A 19901025; YU 199290 A 19901024; ZA 908116 A 19901011