

Title (en)
PLASTIC CONTAINER HAVING A ROTARY CLOSURE

Title (de)
KUNSTSTOFF-BEHÄLTER MIT DREHVERSCHLUSS

Title (fr)
CONTENANT EN MATIÈRE PLASTIQUE POURVU D'UNE CAPSULE QUART DE TOUR

Publication
EP 3019412 A1 20160518 (DE)

Application
EP 14741379 A 20140610

Priority
• CH 12372013 A 20130710
• IB 2014062102 W 20140610

Abstract (en)
[origin: WO2015004547A1] The invention relates to a plastic container that is produced by means of an extrusion process or a PET blowing process. The plastic container is equipped with an associated rotary closure, which can be brought from a closed position to an open position by a pivoting movement. As a special feature, the neck of the container and the associated rotary closure (16) are each made of only a single part. The container has a straight or slightly conical neck, which forms a radially protruding collar on the outside in the bottom half of the neck, on the lower edge of which collar an attachable rotary closure having snapping elements (11) can be locked in, such that the rotary closure is retained on the neck in such a way that the rotary closure can be pivoted about an axis of rotation of the rotary closure. The collar also forms radial surfaces that act as stop surfaces for radial ribs (14) on the inside of the associated rotary closure for limiting the pivoting range between the closed position and the open position of the rotary closure on the neck. The opening of the neck forms a projecting, circular-ring-shaped end face, into which a channel leads, which channel bulges out from the neck in the radial direction in the neck inner wall and is open to the inside of the neck. The rotary closure forms two concentrically arranged straight or slightly conical pipe segments (6, 7) on the inside of the lid surface (12) of the rotary closure. The outer pipe segment (7) lies on the circular-ring-shaped end face in a sealing manner when the rotary closure is attached, and the inner, longer pipe segment (6) nestles against the neck inner wall in a sealing manner and extends into the neck interior. The inner pipe segment has a perforation (8) at one location. Between the two pipe segments (6, 7) at the location of the perforation (8), a hole (9) is present in the lid surface (12), such that the perforation (8) can be pivoted over the location of the bulging channel for the open position. Then liquid can flow outward through the perforation (8) and the hole (9).

IPC 8 full level
B65D 1/02 (2006.01); **B65D 41/04** (2006.01); **B65D 47/26** (2006.01)

CPC (source: EP RU US)
B65D 1/023 (2013.01 - EP US); **B65D 41/0428** (2013.01 - EP US); **B65D 47/263** (2013.01 - EP US); **B65D 47/26** (2013.01 - RU)

Citation (search report)
See references of WO 2015004547A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015004547 A1 20150115; AU 2014288945 A1 20160128; AU 2014288945 B2 20170921; BR 112016000332 B1 20210406; CA 2917730 A1 20150115; CH 708282 A1 20150115; CN 105377708 A 20160302; CN 105377708 B 20170208; EP 3019412 A1 20160518; EP 3019412 B1 20170726; ES 2645146 T3 20171204; HU E036595 T2 20180730; JP 2016523782 A 20160812; JP 6244457 B2 20171206; MX 2016000109 A 20160301; MX 367266 B 20190812; PL 3019412 T3 20171229; PT 3019412 T 20171004; RU 2016102345 A 20170811; RU 2634880 C2 20171107; US 2016152385 A1 20160602; US 9527632 B2 20161227; ZA 201600485 B 20170531

DOCDB simple family (application)
IB 2014062102 W 20140610; AU 2014288945 A 20140610; BR 112016000332 A 20140610; CA 2917730 A 20140610; CH 12372013 A 20130710; CN 201480039402 A 20140610; EP 14741379 A 20140610; ES 14741379 T 20140610; HU E14741379 A 20140610; JP 2016524906 A 20140610; MX 2016000109 A 20140610; PL 14741379 T 20140610; PT 14741379 T 20140610; RU 2016102345 A 20140610; US 201414904093 A 20140610; ZA 201600485 A 20160121