

Title (en)
STRUCTURE FOR REMOVING END-RING OF RESIN BOTTLE CAP, AND CONTAINER PROVIDED WITH THE SAME

Title (de)
STRUKTUR ZUR ENTFERNUNG DES ENDRINGS EINES HARZFLASCHEDECKELS UND BEHÄLTER DAMIT

Title (fr)
STRUCTURE POUR RETIRER LA BAGUE D'EXTRÉMITÉ D'UNE CAPSULE DE BOUTEILLE EN RÉSINE, ET RÉCIPIENT LA COMPORTANT

Publication
EP 2447179 B1 20150729 (EN)

Application
EP 10791916 A 20100512

Priority
• JP 2010058012 W 20100512
• JP 2009151245 A 20090625

Abstract (en)
[origin: EP2447179A1] A resin bottle cap end-ring removal structure is provided for easily removing from a bottle body an end-ring that remains on the bottle body side when opening a bottle cap such as on a PET bottle, and a container provided with the same. A barbed body 250, which is formed to an end-ring 25 that remains on a bottle body 1, is divided by a non-barbed guidance section 255 formed over one partial section where the barbed body 250 is not formed. A guidance flange cut-out section 151 is formed in a portion of a ring stopper upper flange 15. An effective guidance zone Z, in which restriction on the end-ring from the ring stopper upper flange 15 is released in a partial section, is secured by setting a removal initiation set position state in which the non-barbed guidance section 255 and the guidance flange cut-out section 151 are disposed adjacent to each other. A removal guiding inclined orientation of the end-ring 25 is then achieved for removal initiation of the end-ring 25 at this position.

IPC 8 full level
B65D 41/34 (2006.01); **B65D 1/02** (2006.01); **B65D 23/00** (2006.01)

CPC (source: EP)
B65D 1/023 (2013.01); **B65D 1/0253** (2013.01); **B65D 41/3428** (2013.01); **B65D 2203/00** (2013.01); **B65D 2565/385** (2013.01)

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 SE SI SK SM TR

DOCDB simple family (publication)
EP 2447179 A1 20120502; EP 2447179 A4 20121121; EP 2447179 B1 20150729; JP 2011006105 A 20110113; JP 4560127 B1 20101013; KR 20120101626 A 20120914; WO 2010150597 A1 20101229

DOCDB simple family (application)
EP 10791916 A 20100512; JP 2009151245 A 20090625; JP 2010058012 W 20100512; KR 20127001468 A 20100512