

Title (en)
CROWN CAP CLOSURE AND CLOSING METHOD

Title (de)
KRONKORKENVERSCHLUSS UND VERSCHLUSSVERFAHREN

Title (fr)
BOUCHAGE PAR CAPSULE ET PROCÉDÉ DE BOUCHAGE

Publication
EP 3122648 B1 20171220 (DE)

Application
EP 15713155 A 20150324

Priority
• DE 102014104323 A 20140327
• EP 2015056266 W 20150324

Abstract (en)
[origin: WO2015144711A1] The invention relates to a cap-like closure system for containers, in the form of crown caps, which have a plurality of jag- or tooth-like shape ends. Said crown caps are composed at least partially of a metal and/or aluminum-containing material (main body) and can comprise an inner coating composed of one or more layers (rubber, plastic) for improving the sealing between the container opening and the underside of the crown cap. The crown cap is shaped in such a way that the shape ends have the fundamentally known corrugated or jagged radial contour after the intended deformation which closes the opening of the container, such that one or more cavities are formed between the outer container surface close to the opening and the shape ends. A deformable sealing material is provided in the region of the shape ends. The sealing material closes the cavities at least in the periphery of the end pointing toward the container bottom. The sealing material is a ring- or hoop-like element, which is separate from the crown cap and is attached in the corresponding opening region of the container separately from, i.e., independently of, the main body of the crown cap. However, said element then interacts with the crown cap (main body) in such a way that, when the shape ends of the crown cap are deformed for the final container closure, said form ends press or sink into the sealing material at least in some sections.

IPC 8 full level
B65D 41/12 (2006.01); **B67B 3/02** (2006.01)

CPC (source: EP US)
B65C 3/26 (2013.01 - US); **B65D 41/12** (2013.01 - EP US); **B65D 53/02** (2013.01 - US); **B67B 3/023** (2013.01 - US); **B67C 3/24** (2013.01 - US); **B67C 3/28** (2013.01 - US); **B67C 7/004** (2013.01 - US); **B67C 2003/228** (2013.01 - US)

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

DOCDB simple family (publication)
DE 102014104323 A1 20151001; EP 3122648 A1 20170201; EP 3122648 B1 20171220; SI 3122648 T1 20180330; US 10343822 B2 20190709; US 2017081087 A1 20170323; WO 2015144711 A1 20151001

DOCDB simple family (application)
DE 102014104323 A 20140327; EP 15713155 A 20150324; EP 2015056266 W 20150324; SI 201530175 T 20150324; US 201615277018 A 20160927