

Title (en)
A CAP FOR A FOOD PACKAGE

Title (de)
DECKEL FÜR EINE LEBENSMITTELVERPACKUNG

Title (fr)
BOUCHON D'EMBALLAGE ALIMENTAIRE

Publication
EP 3296222 A1 20180321 (EN)

Application
EP 17191692 A 20170918

Priority
EP 16189723 A 20160920

Abstract (en)
The solution is a cap (30) arranged to interact with a neck (20) where the cap (30) comprises an inner wall portion (33) provided with at least one cutting element (50) projecting radially inwards. The cutting element (50) has a hinge portion (52) connected to the inner wall portion (33), and a cutting portion (53) extending radially inwards from the hinge portion (52), wherein the axial thickness (K2) of the hinge portion (52) is between 35 and 80% of the axial thickness (K1) of the cutting portion (53). Moreover, the solution is also an assembly comprising the cap (30) and a spout (100) having a membrane (150) closing a tubular member (110) of the spout (100).

IPC 8 full level
B65D 41/04 (2006.01); **B65D 51/22** (2006.01)

CPC (source: EP US)
B65D 41/045 (2013.01 - EP US); **B65D 47/123** (2013.01 - US); **B65D 51/224** (2013.01 - US); **B65D 51/228** (2013.01 - EP US); **B65D 51/222** (2013.01 - EP); **B65D 51/224** (2013.01 - EP); **B65D 53/04** (2013.01 - EP); **B65D 2251/0015** (2013.01 - EP US); **B65D 2251/0028** (2013.01 - EP US); **B65D 2251/0096** (2013.01 - EP US)

Citation (search report)
• [ID] WO 2014202518 A1 20141224 - TETRA LAVAL HOLDINGS & FINANCE [CH]
• [I] US 2009301988 A1 20091210 - RHO HEE KWON [KR]
• [A] EP 2631194 A1 20130828 - TETRA LAVAL HOLDINGS & FINANCE [CH]
• [A] US 8251236 B1 20120828 - ROBINSON CLAYTON L [US], et al
• [A] WO 2013072475 A1 20130523 - TETRA LAVAL HOLDINGS & FINANCE [CH]
• [AD] WO 2011144569 A2 20111124 - TETRA LAVAL HOLDINGS & FINANCE [CH], et al

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)
EP 3296222 A1 20180321; BR 112019005254 A2 20190604; CN 109715510 A 20190503; JP 2019529266 A 20191017; RU 2019111872 A 20201022; US 2021284404 A1 20210916; WO 2018054843 A1 20180329

DOCDB simple family (application)
EP 17191692 A 20170918; BR 112019005254 A 20170918; CN 201780057581 A 20170918; EP 2017073500 W 20170918; JP 2019515451 A 20170918; RU 2019111872 A 20170918; US 201716334544 A 20170918