

Title (en)
DEVICE FOR FORMING DEEP-DRAWN CONTAINERS

Title (de)
VORRICHTUNG ZUM FORMEN VON TIEFGEZOGENEN BEHÄLTERN

Title (fr)
DISPOSITIF POUR FORMER DES RÉCIPIENTS PROFONDÉMENT EMBOUTIS

Publication
EP 2459332 A1 20120606 (DE)

Application
EP 10732655 A 20100706

Priority
• DE 102009035680 A 20090730
• EP 2010004020 W 20100706

Abstract (en)
[origin: WO2011012196A1] The invention relates to a device (40) for forming deep-drawn containers (1), having a mold (41) of conical shape interacting with a stamping body (10; 20; 30), which operatively connects with a material web (2) when the stamping body (10; 20; 30) is immersed in the mold (41), wherein at least at its outer periphery, wherein the stamping body (10; 20; 30) is made of an elastic material, and wherein on the side facing the material web (2), the stamping body (10; 20; 30) has a shape, the conicity of which is less than the conicity of the mold (41). According to the invention, it is provided that the stamping body (10; 20; 30) is slightly smaller than the opening region (45) of the mold, and that, when completely immersed in the mold (41), the stamping body (10; 20; 30) has a clearance (44) to the material web (2), at least in the later peripheral area (5) of the container (1).

IPC 8 full level
B21D 22/21 (2006.01); **B21D 22/26** (2006.01); **B21D 51/26** (2006.01)

CPC (source: EP US)
B21D 22/26 (2013.01 - EP US); **B21D 51/2646** (2013.01 - EP US)

Citation (search report)
See references of WO 2011012196A1

Cited by
CN111032243A; US11260443B2

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)
WO 2011012196 A1 20110203; AU 2010278373 A1 20120202; CA 2768380 A1 20110203; DE 102009035680 A1 20110317; DK 2459332 T3 20130908; EP 2459332 A1 20120606; EP 2459332 B1 20130605; ES 2421487 T3 20130903; HR P20130783 T1 20131122; JP 2013500163 A 20130107; PL 2459332 T3 20131231; RU 2012121171 A 20131127; RU 2510827 C2 20140410; US 2012119418 A1 20120517; US 9302315 B2 20160405

DOCDB simple family (application)
EP 2010004020 W 20100706; AU 2010278373 A 20100706; CA 2768380 A 20100706; DE 102009035680 A 20090730; DK 10732655 T 20100706; EP 10732655 A 20100706; ES 10732655 T 20100706; HR P20130783 T 20130819; JP 2012521989 A 20100706; PL 10732655 T 20100706; RU 2012121171 A 20100706; US 201013386684 A 20100706