

Title (en)

WINDING REEL FOR A PACKAGE, AND METHOD FOR PRODUCING AND UNWINDING THE SAME

Title (de)

WICKELSPULE FÜR EIN GEBINDE SOWIE VERFAHREN ZU DESSEN HERSTELLUNG UND ABWICKLUNG

Title (fr)

BOBINE D'ENROULEMENT POUR UN EMBALLAGE ET PROCÉDÉ POUR LA FABRIQUER ET LA DÉROULER

Publication

EP 2931638 A1 20151021 (DE)

Application

EP 13807939 A 20131212

Priority

- DE 102012024450 A 20121213
- EP 2013003759 W 20131212

Abstract (en)

[origin: WO2014090408A1] Winding reel for a transportable package for elongate winding material, having a substantially rotationally symmetrical, conical, hollow winding-core attachment made of plastics material. The taper ratio l/t of the wall of said conical portion here is selected in dependence on the modulus of elasticity of the plastics material, in particular selected such that deformation in these regions, which adversely affects the winding in particular, is avoided or reduced.

IPC 8 full level

B65H 54/10 (2006.01); **B65H 75/14** (2006.01); **B65H 75/22** (2006.01)

CPC (source: EP US)

B65H 54/103 (2013.01 - EP US); **B65H 75/14** (2013.01 - EP US); **B65H 75/2227** (2021.05 - EP US); **B65H 75/2281** (2021.05 - EP US); **B65H 2701/534** (2013.01 - EP US)

Citation (search report)

See references of WO 2014090408A1

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)

DE 102012024450 A1 20140618; BR 112015013501 A2 20170711; CN 104903221 A 20150909; EP 2931638 A1 20151021; JP 2016501171 A 20160118; MX 2015007451 A 20150916; RU 2015127808 A 20170117; US 2015274480 A1 20151001; WO 2014090408 A1 20140619

DOCDB simple family (application)

DE 102012024450 A 20121213; BR 112015013501 A 20131212; CN 201380065525 A 20131212; EP 13807939 A 20131212; EP 2013003759 W 20131212; JP 2015546897 A 20131212; MX 2015007451 A 20131212; RU 2015127808 A 20131212; US 201514738588 A 20150612