

Title (en)
METHOD FOR THREE-DIMENSIONAL SHAPING OF MATERIAL

Title (de)
VERFAHREN ZUM DREIDIMENSIONALEN UMFORMEN VON MATERIAL

Title (fr)
PROCÉDÉ DE FORMAGE TRIDIMENSIONNEL DE MATÉRIAU

Publication
EP 3347196 B1 20210901 (DE)

Application
EP 16767162 A 20160904

Priority
• DE 102015115251 A 20150910
• EP 2016070789 W 20160904

Abstract (en)
[origin: WO2017042108A1] The invention relates to a method for the three-dimensional shaping of flat material made from in particular, natural fibers, such as for example, paper or cardboard, using a deep-drawing piston and a die, through which or into which the material is drawn. The diameter of the deep-drawing piston plus the material thickness of the deep-drawn material corresponds at least approximately to the diameter of the die.

IPC 8 full level
B31B 50/59 (2017.01); **B31D 5/02** (2017.01); **B31F 1/00** (2006.01); **B31F 1/36** (2006.01); **B65B 47/06** (2006.01)

CPC (source: EP US)
B31B 50/592 (2018.04 - EP US); **B31F 1/0077** (2013.01 - EP US); **B31F 1/0087** (2013.01 - EP US); **B31F 1/36** (2013.01 - EP US); **B65B 47/06** (2013.01 - US); **B31B 50/59** (2017.07 - EP 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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2017042108 A1 20170316; DE 102015115251 A1 20170316; EP 3347196 A1 20180718; EP 3347196 B1 20210901; US 11084242 B2 20210810; US 2018264768 A1 20180920

DOCDB simple family (application)
EP 2016070789 W 20160904; DE 102015115251 A 20150910; EP 16767162 A 20160904; US 201615759320 A 20160904