

Title (en)
SURFACE TEXTURING OF DEFORMING TOOLS

Title (de)
OBERFLÄCHENTEXTURIERUNG VON UMFORMUNGSWERKZEUGEN

Title (fr)
STRUCTURATION DE SURFACE D'OUTILS DE FORMAGE

Publication
EP 3223970 B1 20190220 (DE)

Application
EP 15781952 A 20151021

Priority
• DE 102014224413 A 20141128
• DE 102014226970 A 20141223
• EP 2015074288 W 20151021

Abstract (en)
[origin: WO2016083026A1] The invention relates to a method for producing a deforming tool (2) having a structured embossing surface (4) which can be brought into contact with a surface of a substrate (1) for plastic deformation thereof, the method comprising: determining a target structure to be produced on the substrate (1); geometrically distorting the target structure, such that an embossing image structure is obtained; inverting the embossing image structure, such that the embossing structure for the embossed surface (4) is obtained; producing the embossing surface (4) of the deforming tool (2) according to the embossing structure.

IPC 8 full level
B21B 27/00 (2006.01); **B21H 8/00** (2006.01); **B31F 1/07** (2006.01); **B44B 5/00** (2006.01)

CPC (source: CN EP KR RU US)
B21B 1/227 (2013.01 - US); **B21B 27/00** (2013.01 - RU); **B21B 27/005** (2013.01 - CN EP KR US); **B21H 8/00** (2013.01 - RU); **B21H 8/005** (2013.01 - CN EP KR US); **B31F 1/07** (2013.01 - EP US); **B44B 5/0047** (2013.01 - EP KR US); **B21B 2001/228** (2013.01 - CN EP KR US); **B44B 5/026** (2013.01 - EP US); **Y10T 29/4956** (2015.01 - 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 102014226970 A1 20160602; CN 107000000 A 20170801; EP 3223970 A1 20171004; EP 3223970 B1 20190220; ES 2726917 T3 20191010; JP 2018504279 A 20180215; JP 6574993 B2 20190918; KR 102042025 B1 20191107; KR 20170073668 A 20170628; PL 3223970 T3 20190731; RU 2017122480 A 20181228; RU 2017122480 A3 20181228; RU 2677814 C2 20190121; US 10864565 B2 20201215; US 2017320114 A1 20171109; WO 2016083026 A1 20160602

DOCDB simple family (application)
DE 102014226970 A 20141223; CN 201580064770 A 20151021; EP 15781952 A 20151021; EP 2015074288 W 20151021; ES 15781952 T 20151021; JP 2017528463 A 20151021; KR 20177013908 A 20151021; PL 15781952 T 20151021; RU 2017122480 A 20151021; US 201515531030 A 20151021