

Title (en)
METHOD FOR BENDING A WORKPIECE

Title (de)
VERFAHREN ZUM BIEGEN EINES WERKSTÜCKS

Title (fr)
PROCÉDÉ DE PLIAGE D'UNE PIÈCE

Publication
EP 2900395 A1 20150805 (DE)

Application
EP 13802850 A 20130925

Priority
• AT 10512012 A 20120926
• AT 2013050195 W 20130925

Abstract (en)
[origin: WO2014047669A1] The invention relates to a method for bending a workpiece (1) consisting of sheet metal, wherein a deformation region (6), particularly a strip-shaped region, on the workpiece (1) containing the bent edge (5) to be produced is heated before and/or during the bending process to a deforming temperature below the fusion temperature of the metal to increase deformability locally. In order to reduce undesirable deformations as a result of shrinkage stresses, the workpiece (1) is heated before and/or during and/or after the bending process in at least one heating zone (11) that is different from the deformation zone (6), by means of the application of energy from outside the workpiece (1), proceeding from an initial temperature to a treatment temperature below the fusion temperature of the metal.

IPC 8 full level
B21D 5/00 (2006.01); **B21D 5/02** (2006.01)

CPC (source: AT EP US)
B21D 5/00 (2013.01 - AT); **B21D 5/002** (2013.01 - AT); **B21D 5/004** (2013.01 - EP US); **B21D 5/008** (2013.01 - US); **B21D 5/02** (2013.01 - US); **B21D 5/0281** (2013.01 - EP US); **B21D 37/16** (2013.01 - AT); **C21D 9/46** (2013.01 - AT); **C21D 8/0294** (2013.01 - EP US)

Citation (search report)
See references of WO 2014047669A1

Cited by
IT201700050632A1

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 2014047669 A1 20140403; AT 513467 A1 20140415; AT 513467 B1 20140715; EP 2900395 A1 20150805; EP 2900395 B1 20170405; JP 2015530254 A 20151015; JP 6367808 B2 20180801; US 2015266073 A1 20150924; US 9707608 B2 20170718

DOCDB simple family (application)
AT 2013050195 W 20130925; AT 10512012 A 20120926; EP 13802850 A 20130925; JP 2015533376 A 20130925; US 201314431050 A 20130925