

Title (en)

Device and method for forming a workpiece

Title (de)

Verfahren und Vorrichtung zum Umformen eines Werkstücks

Title (fr)

Procédé et dispositif pour le formage d'une pièce

Publication

EP 2653244 B1 20141217 (DE)

Application

EP 12002781 A 20120420

Priority

EP 12002781 A 20120420

Abstract (en)

[origin: EP2653244A1] The method involves shaping a radial inner region (102) of a workpiece (100) by a stamper (30) and a die (20) by a deep-drawing process in an axial direction such that a shaped axial portion (106) is formed. The workpiece is rotated about the central axis during shaping of the radial inner region. A radial outer region (104) of the workpiece is pressurized by a shaping roller (40) during rotation of the workpiece and shaping of the radial inner region such that a material flow is produced towards the radial inner region, where the shaping roller is set towards the radial inner region. The shaped axial portion is designed as a bowl-shaped inner area or a sleeve-shaped inner area. An independent claim is also included for a device for shaping a workpiece.

IPC 8 full level

B21D 22/14 (2006.01); **B21D 22/21** (2006.01)

CPC (source: CN EP US)

B21D 22/14 (2013.01 - CN EP US); **B21D 22/21** (2013.01 - CN EP US); **B21D 53/261** (2013.01 - US)

Cited by

KR20170092584A; EP3221068B1; CN106514154A; EP3736920A1; EP3736920B1; WO2016079024A1; EP3221068B2

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DOCDB simple family (publication)

EP 2653244 A1 20131023; **EP 2653244 B1 20141217**; CN 104395008 A 20150304; CN 104395008 B 20160525; ES 2532217 T3 20150325; JP 2015514588 A 20150521; JP 6131317 B2 20170517; KR 101910395 B1 20181022; KR 20150007288 A 20150120; US 2015089986 A1 20150402; US 9669445 B2 20170606; WO 2013156193 A1 20131024

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