

Title (en)

DEVICE AND METHOD FOR MACHINING A WORKPIECE CONSISTING OF METAL, PARTICULARLY FOR PRODUCING A CUP-SHAPED COMPONENT FOR THE AUTOMOBILE INDUSTRY

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BEARBEITEN EINES WERKSTÜCKES AUS METALL, INSBESONDERE ZUM HERSTELLEN EINES TOPFFÖRMIGEN BAUTEILS FÜR DIE AUTOMOBILINDUSTRIE

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR USINER UNE PIÈCE EN MÉTAL, EN PARTICULIER POUR FABRIQUER UN ÉLÉMENT EN FORME DE POT POUR L'INDUSTRIE AUTOMOBILE

Publication

**EP 2785477 B1 20170531 (DE)**

Application

**EP 13711617 A 20130318**

Priority

- DE 102012005635 A 20120322
- EP 2013055553 W 20130318

Abstract (en)

[origin: CA2865465A1] The invention relates to a device for machining a workpiece (5) that consists of metal, for example steel, using machining processes such as forming, press forming, drawing, spinning and cutting, and comprising the following features and components: - at least two tools (1-4) being provided; - a drive being associated with the tools (1-4) in order to move them for the purpose of carrying out the machining process; and - the drives being designed such that the tools have different speeds, at least in one section of their paths, as they pass along said paths.

IPC 8 full level

**B21D 22/22** (2006.01); **B21D 24/04** (2006.01); **B21D 24/10** (2006.01)

CPC (source: EP RU US)

**B21D 22/20** (2013.01 - US); **B21D 22/22** (2013.01 - EP US); **B21D 24/04** (2013.01 - EP US); **B21D 24/10** (2013.01 - EP US); **B21D 51/22** (2013.01 - US); **B21D 22/22** (2013.01 - RU); **B21D 24/04** (2013.01 - RU); **B21D 24/10** (2013.01 - RU)

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 102012005635 B3 20130627**; BR 112014020730 B1 20210504; CA 2865465 A1 20130926; CA 2865465 C 20200721; CN 104136141 A 20141105; CN 104136141 B 20171110; EP 2785477 A1 20141008; EP 2785477 B1 20170531; ES 2629864 T3 20170816; JP 2015510842 A 20150413; JP 2018187681 A 20181129; JP 6654896 B2 20200226; JP 6727255 B2 20200722; KR 102155519 B1 20200914; KR 20140138632 A 20141204; MX 2014010115 A 20150309; MX 350758 B 20170918; PL 2785477 T3 20170929; PT 2785477 T 20170710; RS 56287 B1 20171229; RU 2014137905 A 20160520; RU 2634830 C2 20171103; US 2014352390 A1 20141204; US 9289812 B2 20160322; WO 2013139731 A1 20130926; ZA 201407089 B 20160831

DOCDB simple family (application)

**DE 102012005635 A 20120322**; BR 112014020730 A 20130318; CA 2865465 A 20130318; CN 201380010761 A 20130318; EP 13711617 A 20130318; EP 2013055553 W 20130318; ES 13711617 T 20130318; JP 2015500869 A 20130318; JP 2018128307 A 20180705; KR 20147022746 A 20130318; MX 2014010115 A 20130318; PL 13711617 T 20130318; PT 13711617 T 20130318; RS P20170726 A 20130318; RU 2014137905 A 20130318; US 201414463490 A 20140819; ZA 201407089 A 20140930