

Title (en)

METHOD AND DEVICE FOR PUNCHING / CUTTING OUT A COMPONENT FROM A BLANK

Title (de)

VERFAHREN UND VORRICHTUNG ZUM AUSSTOSSEN/AUSSCHNEIDEN EINER KOMPONENTE AUS EINEM ROHLING

Title (fr)

PROCÉDÉ ET DISPOSITIF DE POINÇONNAGE / DE DÉCOUPE D'UN COMPOSANT À PARTIR D'UN FLAN

Publication

EP 2437902 A1 20120411 (EN)

Application

EP 10783658 A 20100531

Priority

- SE 2010050588 W 20100531
- SE 0950400 A 20090602

Abstract (en)

[origin: WO2010140960A1] The invention relates to a method for punching/cutting out a detail from a workpiece, such as a sheet of metal or any material with a similar structure and is characterized by the steps that a first die cutter is pressed against a workpiece, that a counterforce is pressed with a counterforce force against the die cutter at the opposite side of the workpiece, the force of the die cutter being larger than the force of the counterforce, that, when the punched part has been at least partly or entirely penetrated through the workpiece, said part is returned into the workpiece essentially to its start position as the force of the counterforce is larger than the force of the die cutter, that at least a second die cutter and a corresponding counterforce, both with, in relation to said punched part, differing and/or either partly or entirely corresponding, radially outer dimension, preferably corresponding to the intended final shape of the detail, penetrate through the material and punch/cut out the intended contour of the detail, and that the detail is subsequently ejected from the workpiece.

IPC 8 full level

B21D 28/16 (2006.01); **B26F 1/02** (2006.01); **B26F 1/14** (2006.01)

CPC (source: EP SE)

B21D 28/16 (2013.01 - EP SE); **B26F 1/02** (2013.01 - EP SE); **B26F 1/14** (2013.01 - SE)

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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2010140960 A1 20101209; EP 2437902 A1 20120411; EP 2437902 A4 20130828; SE 0950400 A1 20101203; SE 534128 C2 20110503

DOCDB simple family (application)

SE 2010050588 W 20100531; EP 10783658 A 20100531; SE 0950400 A 20090602