

Title (en)

Method for forging

Title (de)

Verfahren zum Schmieden eines Werkstücks

Title (fr)

Procédé de forgeage

Publication

EP 2745954 B1 20160316 (DE)

Application

EP 13196889 A 20131212

Priority

AT 505882012 A 20121213

Abstract (en)

[origin: EP2745954A2] The method involves machining a workpiece (5) for forging process, which is arranged radially to forging tool (3). The machined workpiece is passed through different feed directions. The machined workpiece is inclined and is deformed with the mold surfaces of the forging tools depending on the passage of different feed directions. The workpiece along the feed direction is deformed against the sloping mold surface which is formed in opposite to the feed direction along forging axis (2) formed parallel to mold surface.

IPC 8 full level

B21J 7/14 (2006.01); **B21J 13/02** (2006.01); **B21K 27/02** (2006.01)

CPC (source: AT EP)

B21J 5/00 (2013.01 - AT); **B21J 7/14** (2013.01 - EP); **B21J 13/02** (2013.01 - EP); **B21K 27/02** (2013.01 - EP)

Citation (opposition)

Opponent : SMS group GmbH

- FR 2147980 A1 19730311 - GEM FERTIGUNGSTECHNIK
- EP 0157575 A2 19851009 - KAWASAKI STEEL CO [JP]
- DE 102008047782 A1 20090618 - GRAMMER AG [DE]
- GB 777928 A 19570703 - STEWARTS & LLOYDS LTD
- RUPERT WIESER: "The new GFM radialforger - an improved equipment for the radial forging technology", 13TH INTERNATIONAL FORGEMASTERS MEETING, vol. II, 12 October 1997 (1997-10-12), Pusan, Südkorea, pages 427 - 439
- "The New Radialforger", 2000, Steyr, Österreich ;
- R.S. WATTS: "Ideas on the Future Development of a Hammer Forge", BISRA FIFTH CONFERENCE ON FORGING, 16 June 1966 (1966-06-16), London, pages 53 - 66

Opponent : anonymous

- AT 307203 B 19730510 - GFM FERTIGUNGSTECHNIK
- EP 0157575 A2 19851009 - KAWASAKI STEEL CO [JP]

Cited by

CN109047635A

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)

EP 2745954 A2 20140625; **EP 2745954 A3 20141126**; **EP 2745954 B1 20160316**; **EP 2745954 B8 20160622**; AT 513701 A1 20140615; AT 513701 B1 20150615

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