

Title (en)
Flow forming method

Title (de)
Abstreckdrückwalzverfahren

Title (fr)
Procédé de fluotournage

Publication
EP 2857531 A3 20150422 (EN)

Application
EP 14183234 A 20140902

Priority
GB 201316829 A 20130923

Abstract (en)
[origin: EP2857531A2] A method of forming a shaped article. The method comprises providing a pre-form 40 comprising a chromium molybdenum vanadium steel alloy, heat treating the pre-form to obtain a surface hardness of between 420 and 480 according to the Vickers hardness test, and, subsequent to the heat treating step, flow forming the pre-form 40 to shape the pre-form.

IPC 8 full level
C21D 9/08 (2006.01); **B21D 22/14** (2006.01); **C21D 1/25** (2006.01); **C21D 8/10** (2006.01); **C21D 9/28** (2006.01)

CPC (source: EP US)
C21D 1/06 (2013.01 - US); **C21D 1/18** (2013.01 - US); **C21D 1/25** (2013.01 - EP US); **C21D 1/30** (2013.01 - EP US); **C21D 8/005** (2013.01 - US); **C21D 9/08** (2013.01 - EP US); **C21D 9/28** (2013.01 - EP US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - US); **C22C 38/04** (2013.01 - US); **C22C 38/22** (2013.01 - US); **C22C 38/24** (2013.01 - US); **C22C 38/44** (2013.01 - US); **C22C 38/46** (2013.01 - US); **C22C 38/60** (2013.01 - US); **B21D 22/14** (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 8/10** (2013.01 - EP US)

Citation (search report)
• [A] JP H0489140 A 19920323 - NISSAN MOTOR
• [A] US 2010236122 A1 20100923 - FONTE MATTHEW V [US]
• [X] M. JAHAZI, G. EBRAHIMI: "The influence of flow-forming parameters and microstructure on the quality of a D6ac steel", JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, no. 103, 2000, pages 362 - 366, XP055173954

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)
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DOCDB simple family (application)
EP 14183234 A 20140902; GB 201316829 A 20130923; US 201414475654 A 20140903