

Title (en)
METHOD FOR HOT-FORMING A STEEL BLANK

Title (de)
VERFAHREN ZUR WARMVERFORMUNG EINES STAHLROHLINGS

Title (fr)
PROCÉDÉ DE FORMAGE À CHAUD D'UNE ÉBAUCHE D'ACIER

Publication
EP 3327152 B1 20231011 (EN)

Application
EP 16201185 A 20161129

Priority
EP 16201185 A 20161129

Abstract (en)
[origin: EP3327152A1] The invention relates to a method for hot forming a steel blank into an article having enhanced mechanical properties, such as an automotive part with improved ductility and impact toughness, and to a hot formed article obtained by said method.

IPC 8 full level
C21D 1/19 (2006.01); **B21D 22/02** (2006.01); **C21D 1/673** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/28** (2006.01); **C22C 38/30** (2006.01); **C22C 38/32** (2006.01); **C22C 38/38** (2006.01)

CPC (source: CN EP)
B21D 22/02 (2013.01 - CN); **B21D 22/022** (2013.01 - EP); **B21D 37/16** (2013.01 - CN); **C21D 1/19** (2013.01 - CN EP); **C21D 1/673** (2013.01 - EP); **C22C 38/001** (2013.01 - CN EP); **C22C 38/002** (2013.01 - CN); **C22C 38/005** (2013.01 - CN EP); **C22C 38/02** (2013.01 - CN EP); **C22C 38/04** (2013.01 - CN EP); **C22C 38/06** (2013.01 - CN EP); **C22C 38/22** (2013.01 - CN EP); **C22C 38/24** (2013.01 - CN EP); **C22C 38/26** (2013.01 - CN EP); **C22C 38/28** (2013.01 - CN EP); **C22C 38/30** (2013.01 - CN EP); **C22C 38/32** (2013.01 - CN EP); **C22C 38/34** (2013.01 - CN); **C22C 38/38** (2013.01 - CN EP); **C21D 2211/001** (2013.01 - EP); **C21D 2211/002** (2013.01 - EP)

Citation (examination)
• SHIMA PASHANGHE ET AL: "Detection and Estimation of Retained Austenite in a High Strength Si-Bearing Bainite-Martensite-Retained Austenite Micro-Composite Steel after Quenching and Bainitic Holding (Q&B)", METALS, vol. 9, no. 5, 1 January 2019 (2019-01-01), CH, pages 492, XP055743883, ISSN: 2075-4701, DOI: 10.3390/met9050492
• S H MAGNER ET AL: "A HISTORICAL REVIEW OF RETAINED AUSTENITE AND ITS MEASUREMENT BY X-RAY DIFFRACTION", 1 January 2002 (2002-01-01), XP055743907, Retrieved from the Internet <URL:http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.278.7228&rep=rep1&type=pdf> [retrieved on 20201026]

Cited by
CN112996929A

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 3327152 A1 20180530; EP 3327152 B1 20231011; CN 108118242 A 20180605

DOCDB simple family (application)
EP 16201185 A 20161129; CN 201711219940 A 20171129