

Title (en)  
MICRO-ALLOYED HIGH-STRENGTH MULTI-PHASE STEEL CONTAINING SILICON AND HAVING A MINIMUM TENSILE STRENGTH OF 750 MPA AND IMPROVED PROPERTIES AND METHOD FOR PRODUCING A STRIP FROM SAID STEEL

Title (de)  
SILIZIUMHALTIGER, MIKROLEGIERTER HOCHFESTER MEHRPHASENSTAHL MIT EINER MINDESTZUGFESTIGKEIT VON 750 MPA UND VERBESSERTEN EIGENSCHAFTEN UND VERFAHREN ZUR HERSTELLUNG EINES BANDES AUS DIESEM STAHL

Title (fr)  
ACIER MULTIPHASE À HAUTE RÉSIDENCE, MICRO-ALLIÉ ET CONTENANT DU SILICIUM, PRÉSENTANT UNE RÉSIDENCE MINIMALE À LA TRACTION DE 750 MPA ET DES PROPRIÉTÉS AMÉLIORÉES ET PROCÉDÉ DE FABRICATION D'UNE BANDE À PARTIR DE CET ACIER

Publication  
**EP 3027784 B1 20170830 (DE)**

Application  
**EP 14741788 A 20140527**

Priority  
• DE 102013013067 A 20130730  
• DE 2014000295 W 20140527

Abstract (en)  
[origin: WO2015014333A2] The invention relates to a high-strength multi-phase steel having minimum tensile strengths of 750 MPa and preferably having a dual-phase microstructure for a cold- or hot-rolled steel strip, in particular for lightweight vehicle construction, said high-strength multi-phase steel having improved forming properties and a ratio of yield point to tensile strength of at most 73%. The high-strength multi-phase steel consists of the elements specified in claim 1 (contents in mass %), the remainder iron, including typical elements accompanying steel that are not mentioned above, which represent contamination resulting from smelting.

IPC 8 full level  
**C22C 38/00** (2006.01); **C21D 8/02** (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 38/32** (2006.01)

CPC (source: EP RU US)  
**C21D 1/26** (2013.01 - EP US); **C21D 1/76** (2013.01 - EP US); **C21D 1/84** (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 6/005** (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 8/0205** (2013.01 - EP US); **C21D 8/0221** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP US); **C21D 8/0263** (2013.01 - EP US); **C21D 8/0273** (2013.01 - EP US); **C21D 8/0278** (2013.01 - EP US); **C21D 9/46** (2013.01 - RU); **C21D 9/52** (2013.01 - EP US); **C21D 9/573** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/22** (2013.01 - EP US); **C22C 38/24** (2013.01 - EP US); **C22C 38/26** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/32** (2013.01 - EP RU US); **C22C 38/38** (2013.01 - EP RU US); **C23C 2/02** (2013.01 - EP RU US); **C23C 2/022** (2022.08 - EP RU US); **C23C 2/0224** (2022.08 - EP RU US); **C23C 2/024** (2022.08 - EP RU US); **C23C 2/06** (2013.01 - US); **C23C 2/26** (2013.01 - EP RU US); **C21D 9/46** (2013.01 - EP US); **C21D 2211/002** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US); **C21D 2211/008** (2013.01 - EP US)

Cited by  
WO2021185514A1; WO2020058330A1; DE102021128327A1; DE102020203564A1; DE102017223633A1; WO2019121793A1; US11473160B2

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)  
**WO 2015014333 A2 20150205; WO 2015014333 A3 20151105**; DE 102013013067 A1 20150205; EP 3027784 A2 20160608; EP 3027784 B1 20170830; KR 102196079 B1 20201229; KR 20160039218 A 20160408; RU 2016107030 A 20170901; RU 2016107030 A3 20180313; RU 2666392 C2 20180907; US 10612113 B2 20200407; US 2016186298 A1 20160630; US 2018298476 A1 20181018

DOCDB simple family (application)  
**DE 2014000295 W 20140527**; DE 102013013067 A 20130730; EP 14741788 A 20140527; KR 20167004426 A 20140527; RU 2016107030 A 20140527; US 201414908471 A 20140527; US 201816007310 A 20180613