

Title (en)

AUSTENITIC STEEL HAVING HIGH STRENGTH AND FORMABILITY METHOD OF PRODUCING SAID STEEL AND USE THEREOF

Title (de)

AUSTENITISCHER STAHL MIT HOHER FESTIGKEIT UND VERFORMBARKEIT, VERFAHREN ZU SEINER HERSTELLUNG UND DESSEN VERWENDUNG

Title (fr)

ACIER AUSTÉNITIQUE À HAUTE RÉSISTANCE ET PROCÉDÉ POUR SA FABRICATION ET SON UTILISATION

Publication

EP 1846584 A1 20071024 (EN)

Application

EP 06706689 A 20060201

Priority

- EP 2006001034 W 20060201
- EP 05075258 A 20050202
- EP 05076960 A 20050825
- EP 06706689 A 20060201

Abstract (en)

[origin: WO2006082104A1] Substantially austenitic steel having high strength and good formability for cold rolling comprising (in weight percent) - 0.05 to 1.0 % C - 11.0 to 14.9% Mn - 1.0 to 5.0% Al - O to 2.5% Ni the remainder being iron and unavoidable impurities, wherein the microstructure comprises at least 75% in volume of austenite, and wherein (Ni+Mn) is from 11.0 to 15.9%

IPC 8 full level

C22C 38/06 (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/04** (2006.01)

CPC (source: EP KR US)

C21D 8/0205 (2013.01 - EP US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP US); **C21D 8/0236** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP US)

Citation (search report)

See references of WO 2006082104A1

Cited by

US10774395B2; EP3831597A4; US11752752B2; US11247252B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2006082104 A1 20060810; CN 101111622 A 20080123; CN 101111622 B 20110907; EP 1846584 A1 20071024; EP 1846584 B1 20170524; EP 1846584 B2 20221214; JP 2008528809 A 20080731; JP 5318421 B2 20131016; KR 20070099684 A 20071009; RU 2007132863 A 20090310; RU 2401877 C2 20101020; US 2009165897 A1 20090702

DOCDB simple family (application)

EP 2006001034 W 20060201; CN 200680003885 A 20060201; EP 06706689 A 20060201; JP 2007553560 A 20060201; KR 20077020024 A 20070831; RU 2007132863 A 20060201; US 81508706 A 20060201