

Title (en)

Stainless steel, cold strip made of same and method for producing cold strip from same

Title (de)

Nichtrostender Stahl, aus diesem Stahl hergestelltes Kaltband und Verfahren zur Herstellung eines Stahlflachprodukts aus diesem Stahl

Title (fr)

Acier inoxydable, bande froide fabriquée à partir de cet acier et procédé de fabrication d'un produit plat en acier à partir de cet acier

Publication

EP 2163659 B1 20160608 (DE)

Application

EP 08105309 A 20080911

Priority

EP 08105309 A 20080911

Abstract (en)

[origin: EP2163659A1] The stainless steel has a structure of 5-15 vol. percent of beta ferrite and the remainder austenite, with additives (wt.%) of: C 0.05-0.14%; Si 0.1-1.0%; Mn 4.0-12.0%; Cr 15.5-22.5; Ni 1.0-4.0%; N 0.03-0.2%; P max. 0.07%; S max. 0.01%, Mo max. 0.5%, and optionally one or more elements of the group Ti, Nb, V, Al, Ca, As, Sn, Pb, Bi and H in specified percentages.

IPC 8 full level

C21D 8/04 (2006.01); **C21D 9/46** (2006.01); **C21D 9/48** (2006.01); **C22C 38/42** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)

C21D 8/0426 (2013.01 - EP KR US); **C21D 8/0436** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP KR US); **C21D 9/48** (2013.01 - KR); **C22C 38/001** (2013.01 - KR); **C22C 38/002** (2013.01 - KR); **C22C 38/008** (2013.01 - KR); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - KR); **C21D 9/48** (2013.01 - EP US); **C21D 2211/001** (2013.01 - EP KR US); **C21D 2211/005** (2013.01 - EP KR US)

Cited by

CN103160751A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2163659 A1 20100317; **EP 2163659 B1 20160608**; CN 102149842 A 20110810; CN 104988430 A 20151021; JP 2012502186 A 20120126; JP 5687624 B2 20150318; KR 101375600 B1 20140317; KR 20110052749 A 20110518; US 2011293464 A1 20111201; US 8608873 B2 20131217; WO 2010029012 A1 20100318; ZA 201101593 B 20111130

DOCDB simple family (application)

EP 08105309 A 20080911; CN 200980135717 A 20090903; CN 201510431465 A 20090903; EP 2009061405 W 20090903; JP 2011526470 A 20090903; KR 20117008324 A 20090903; US 200913061842 A 20090903; ZA 201101593 A 20110301