

Title (en)
HOT-ROLLED WIRE

Title (de)
HEISSGEWALTZTER DRAHT

Title (fr)
FIL LAMINÉ À CHAUD

Publication
EP 3133182 A1 20170222 (EN)

Application
EP 15780257 A 20150323

Priority
• JP 2014086532 A 20140418
• JP 2015058696 W 20150323

Abstract (en)
The present invention provides a hot rolled wire rod having high strength and excellent SSC resistance. Disclosed is a hot rolled wire rod including, in percent by mass: C: 0.20 to 0.5%, Si: 0.05 to 0.3%, Mn: 0.3 to 1.5%, Al: 0.001 to 0.1%, P: exceeding 0% and 0.01% or less, and S: exceeding 0% and 0.01% or less, with the balance being iron and inevitable impurities. When the sulfur content in the hot rolled wire rod is measured at 300 sites or more at intervals of 200 μm using an electron beam microanalyzer, a segregation ratio (S max /S ave) is 30 or less, where a segregation ratio is defined as a ratio of the maximum sulfur content S max (% by mass) to an average sulfur content S ave (% by mass).

IPC 8 full level
C22C 38/00 (2006.01); **C21D 8/06** (2006.01); **C21D 9/52** (2006.01); **C22C 38/06** (2006.01); **C22C 38/54** (2006.01)

CPC (source: EP KR)
C21D 8/06 (2013.01 - KR); **C21D 9/52** (2013.01 - KR); **C22C 38/00** (2013.01 - EP); **C22C 38/02** (2013.01 - EP KR); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP KR); **C22C 38/08** (2013.01 - EP); **C22C 38/12** (2013.01 - EP); **C22C 38/14** (2013.01 - EP); **C22C 38/16** (2013.01 - EP); **C22C 38/24** (2013.01 - EP); **C22C 38/32** (2013.01 - EP); **C22C 38/54** (2013.01 - KR); **C21D 8/06** (2013.01 - EP); **C21D 9/52** (2013.01 - EP)

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)
EP 3133182 A1 20170222; **EP 3133182 A4 20171011**; BR 112016024110 A2 20170815; CN 106164316 A 20161123; CN 106164316 B 20180130; JP 2015212412 A 20151126; KR 20160131106 A 20161115; KR 20180112868 A 20181012; WO 2015159650 A1 20151022

DOCDB simple family (application)
EP 15780257 A 20150323; BR 112016024110 A 20150323; CN 201580019443 A 20150323; JP 2015054674 A 20150318; JP 2015058696 W 20150323; KR 20167028162 A 20150323; KR 20187028245 A 20150323