

Title (en)
HIGH-CARBON STEEL WIRE MATERIAL WITH EXCELLENT WIRE DRAWABILITY, AND STEEL WIRE

Title (de)
HOCH-KOHLNSTOFFHALTIGES STAHLDRAHTMATERIAL MIT HERVORRAGENDER DRAHTZIEHFÄHIGKEIT UND STAHLDRAHT

Title (fr)
MATÉRIAU DE FIL D'ACIER À HAUTE TENEUR EN CARBONE PRÉSENTANT UNE EXCELLENTE APTITUDE À L'ÉTIRAGE DE FIL ET FIL D'ACIER

Publication
EP 3282027 B1 20201021 (EN)

Application
EP 16772782 A 20160329

Priority
• JP 2015070095 A 20150330
• JP 2015188843 A 20150925
• JP 2016060019 W 20160329

Abstract (en)
[origin: EP3282027A1] To provide a high-carbon steel wire rod with excellent wire drawability. The high-carbon steel wire rod of the present invention includes predetermined components and also includes pearlite and proeutectoid cementite, and an area ratio of pearlite is 90% or more relative to the entire structure, a maximum length of proeutectoid cementite is 15 μm or less, and a concentration difference between an average of the Si concentration inside proeutectoid cementite and a maximum value of the Si concentration inside ferrite that forms a lamellar structure of pearlite is 0.50 to 3%.

IPC 8 full level
C21D 6/00 (2006.01); **B21C 1/00** (2006.01); **C21D 8/06** (2006.01); **C21D 9/46** (2006.01); **C21D 9/52** (2006.01); **C21D 9/64** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/08** (2006.01); **C22C 38/10** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/18** (2006.01); **C22C 38/24** (2006.01); **C22C 38/28** (2006.01); **C22C 38/30** (2006.01); **C22C 38/32** (2006.01)

CPC (source: EP US)
B21C 1/02 (2013.01 - US); **C21D 6/001** (2013.01 - EP US); **C21D 6/002** (2013.01 - EP US); **C21D 6/005** (2013.01 - EP US); **C21D 6/007** (2013.01 - EP US); **C21D 6/008** (2013.01 - EP US); **C21D 8/065** (2013.01 - EP US); **C21D 9/525** (2013.01 - EP US); **C21D 9/64** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP US); **C22C 38/002** (2013.01 - US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/08** (2013.01 - EP US); **C22C 38/10** (2013.01 - EP); **C22C 38/12** (2013.01 - EP); **C22C 38/14** (2013.01 - EP US); **C22C 38/16** (2013.01 - EP US); **C22C 38/18** (2013.01 - EP); **C22C 38/24** (2013.01 - EP US); **C22C 38/28** (2013.01 - EP US); **C22C 38/30** (2013.01 - EP US); **C22C 38/32** (2013.01 - EP US); **C22C 38/54** (2013.01 - US); **B21C 1/003** (2013.01 - EP US); **C21D 2211/003** (2013.01 - EP US); **C21D 2211/009** (2013.01 - EP US)

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 3282027 A1 20180214; **EP 3282027 A4 20180905**; **EP 3282027 B1 20201021**; CA 2980886 A1 20161006; CA 2980886 C 20190924; CN 107406950 A 20171128; CN 107406950 B 20200414; ES 2835325 T3 20210622; JP 2017061740 A 20170330; JP 6795319 B2 20201202; KR 20170130527 A 20171128; US 2018087125 A1 20180329; WO 2016158901 A1 20161006

DOCDB simple family (application)
EP 16772782 A 20160329; CA 2980886 A 20160329; CN 201680019334 A 20160329; ES 16772782 T 20160329; JP 2016060019 W 20160329; JP 2016064791 A 20160329; KR 20177030428 A 20160329; US 201615562441 A 20160329