

Title (en)
STEEL WIRE ROD WITH EXCELLENT SHAVABILITY FOR HIGH-STRENGTH SPRING, AND HIGH-STRENGTH SPRING

Title (de)
WALZDRAHT MIT HERVORRAGENDER ENTZERRUNG FÜR EINE HOCHFESTE FEDER UND HOCHFESTE FEDER

Title (fr)
TIGE DE FIL D'ACIER AVEC UNE EXCELLENTE CAPACITÉ D'ÉGALISATION POUR RESSORT HAUTE RÉSISTANCE, ET RESSORT HAUTE RÉSISTANCE

Publication
EP 2832891 B1 20190220 (EN)

Application
EP 13768751 A 20130325

Priority
• JP 2012083005 A 20120330
• JP 2013058564 W 20130325

Abstract (en)
[origin: EP2832891A1] This steel wire rod for a high-strength spring is a hot-rolled steel wire rod which has a prescribed chemical composition and a texture such that the area fraction of pearlite is 90% or more; and the average grain size number of pearlite nodules, namely Pave, satisfies the relationship (1) $6.0 \leq Pave \leq 12.0$. In the hot-rolled steel wire rod, the total decarburized depth of the surface layer is 0.20 mm or less, and the content of Cr-based alloy carbides is 7.5% or lower relative to the mass of the steel wire rod. The wire rod for a high strength spring and a high-strength spring obtained using the same as the raw material exhibit excellent shavability and ensure excellent discharge of shavings and excellent SV processing which is not accompanied with the breaking of wire.

IPC 8 full level
C22C 38/34 (2006.01); **C21D 8/06** (2006.01); **C21D 9/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/20** (2006.01); **C22C 38/22** (2006.01); **C22C 38/24** (2006.01); **C22C 38/26** (2006.01); **C22C 38/32** (2006.01); **C22C 38/40** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/54** (2006.01); **F16F 1/02** (2006.01)

CPC (source: EP)
C21D 8/06 (2013.01); **C21D 8/065** (2013.01); **C21D 9/02** (2013.01); **C22C 38/04** (2013.01); **C22C 38/06** (2013.01); **C22C 38/20** (2013.01); **C22C 38/22** (2013.01); **C22C 38/24** (2013.01); **C22C 38/26** (2013.01); **C22C 38/32** (2013.01); **C22C 38/34** (2013.01); **C22C 38/40** (2013.01); **C22C 38/44** (2013.01); **C22C 38/46** (2013.01); **C22C 38/54** (2013.01); **C21D 2211/004** (2013.01); **C21D 2211/009** (2013.01)

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EP3279358A4; US2022112753A1; US10385430B2; US11761054B2

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 2832891 A1 20150204; **EP 2832891 A4 20160427**; **EP 2832891 B1 20190220**; CN 104169453 A 20141126; CN 104169453 B 20160330; JP 2013213238 A 20131017; JP 5796782 B2 20151021; KR 101601582 B1 20160308; KR 20140129262 A 20141106; MX 2014011610 A 20141017; WO 2013146675 A1 20131003

DOCDB simple family (application)
EP 13768751 A 20130325; CN 201380015707 A 20130325; JP 2012083005 A 20120330; JP 2013058564 W 20130325; KR 20147026596 A 20130325; MX 2014011610 A 20130325