Title (en)

WIRE ROD

Title (de)

WALZDRAHT

Title (fr)

FIL MACHINE

Publication

EP 3988678 B1 20231206 (EN)

Application

EP 20827854 A 20200619

Priority

- JP 2019113720 A 20190619
- JP 2020024248 W 20200619

Abstract (en)

[origin: EP3988678A1] This wire rod has a predetermined chemical composition, satisfies the following (1) to (3), contains a pearlite structure having 90% or more of a metal structure, and satisfies the following (4) in a case in which a value of a Vickers hardness at a surface layer portion for each sample is HV_{si} with respect to each of eight samples si collected at arbitrary equal intervals in a longitudinal direction of the wire rod, and an average value and maximum value of HV_{si} are respectively Hv_{siave} and Hv_{simax}: Cu/Ni>1.001.70≤Y1≤4.50Y1=3×Cr+5×Mn+Cu+NiY2<1.81Y2=C+Si/10+AA satisfies A = a in a case in which a value of a = 350 × ([N] - 0.29 × [Ti]) satisfies a ≥ 0, and A = 0 in a case in which the value satisfies a < 0 Hvsimax−Hvsiave≤50.

IPC 8 full level

C21D 8/06 (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/08** (2006.01); **C22C 38/12** (2006.01); **C22C 38/14** (2006.01); **C22C 38/16** (2006.01); **C22C 38/42** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); C21D 1/32 (2006.01); C21D 1/46 (2006.01); C21D 1/48 (2006.01); C21D 1/56 (2006.01); C21D 1/607 (2006.01)

CPC (source: CN EP)

C22C 38/001 (2013.01 - CN); **C22C 38/002** (2013.01 - CN EP); **C22C 38/005** (2013.01 - CN EP); **C22C 38/008** (2013.01 - CN EP); **C22C 38/02** (2013.01 - CN EP); **C22C 38/04** (2013.01 - CN EP); **C22C 38/06** (2013.01 - CN); **C22C 38/08** (2013.01 - CN EP); **C22C 38/12** (2013.01 - CN EP); **C22C 38/14** (2013.01 - CN EP); **C22C 38/16** (2013.01 - CN EP); **C22C 38/34** (2013.01 - CN); **C22C 38/40** (2013.01 - CN); **C22C 38/42** (2013.01 - CN EP); **C22C 38/44** (2013.01 - CN); **C22C 38/46** (2013.01 - CN); **C22C 38/48** (2013.01 - CN); **C22C 38/50** (2013.01 - CN EP); **C22C 38/54** (2013.01 - CN EP); C21D 1/32 (2013.01 - EP); C21D 1/46 (2013.01 - EP); C21D 1/48 (2013.01 - EP); C21D 1/56 (2013.01 - EP); C21D 1/607 (2013.01 - EP); C21D 8/065 (2013.01 - EP); C21D 2211/009 (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

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