

Title (en)

STEEL FOR MECHANICAL STRUCTURES WHICH HAS EXCELLENT MACHINABILITY

Title (de)

STAHL FÜR MECHANISCHE STRUKTUREN MIT HERVORRAGENDER VERARBEITBARKEIT

Title (fr)

ACIER POUR STRUCTURES MÉCANIQUES QUI PRÉSENTE UNE EXCELLENTE MACHINABILITÉ

Publication

EP 3037566 A4 20170419 (EN)

Application

EP 14838708 A 20140808

Priority

- JP 2013172546 A 20130822
- JP 2014071081 W 20140808

Abstract (en)

[origin: EP3037566A1] A steel for mechanical structures has a mixed texture which is composed of a hard phase comprising at least one texture selected from pearlite, bainite and martensite and a ferrite phase, wherein the average equivalent circle diameter of ferrite grains is 7 µm or less and the (ferrite grain) - (ferrite grain) connection rate (X) which is expressed by formula (1) is 0.15 or less. (1): [(Ferrite grain) - (ferrite grain) connection rate (X)] = [the number (A) of (ferrite grain) - (ferrite grain) boundary surfaces] / [the number (B) of (ferrite grain) - (hard phase) boundary surfaces]

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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- [A] JP 2000212686 A 20000802 - KAWASAKI STEEL CO
- [A] KR 20080057845 A 20080625 - POSCO [KR]
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- [A] US 2005058567 A1 20050317 - IWAMA NAOKI [JP], et al
- [A] JP H1192860 A 19990406 - NAT RES INST METALS, et al
- [A] JP 2000239791 A 20000905 - KAWASAKI STEEL CO
- See references of WO 2015025746A1

Designated contracting state (EPC)

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