

Title (en)

HIGH TENSILE STRENGTH STEEL HAVING SUPERIOR FATIGUE STRENGTH AND WELDABILITY AT WELDS AND METHOD FOR MANUFACTURING THE SAME.

Title (de)

HOCHZUGFESTERSTAHL MIT HERVORRAGENDER ERMÜDUNGSFESTIGKEIT UND SCHWEISSBARKEIT UND VERFAHREN ZU DESSEN HERSTELLUNG.

Title (fr)

ACIER A RESISTANCE A LA TRACTION ELEVEE, A RESISTANCE A LA FATIGUE ET A APTITUDE AU SOUDAGE SUPERIEURES ET PROCEDE DE FABRICATION.

Publication

EP 0666332 A4 19951213 (EN)

Application

EP 94923079 A 19940804

Priority

- JP 9401297 W 19940804
- JP 19335093 A 19930804

Abstract (en)

[origin: EP0666332A1] A method for manufacturing a high tensile strength steel by normally hot rolling or control rolling following the hot rolling of a high tensile strength steel or a slab made thereof containing, in terms of weight %, 0.03 to 0.20 % of C, 0.6 to 2.0 % of Si, 0.6 to 2.0 % of Mn, 0.01 to 0.08 % of Al, 0.0020 % or less of B, 0.002 to 0.008 % or less of N, and, as required, at least one of Cu, Mo, Ni, Cr, Nb, V, Ti, Ca and REM, as well as the remaining portion of Fe and unavoidable impurities, wherein generation of fatigue cracks as welded is restrained at portions of this steel which are affected by welding heat, and development of cracks, if generated, is prevented or restrained. <IMAGE>

IPC 1-7

C22C 38/06; **C22C 38/54**; **C21D 6/00**; **C21D 8/02**; **C21D 9/46**

IPC 8 full level

C21D 8/02 (2006.01); **C22C 38/00** (2006.01)

CPC (source: EP KR)

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Citation (search report)

- [X] US 4299621 A 19811110 - GIFLO HENRIK
- [X] US 4279647 A 19810721 - GIFLO HENRIK
- See references of WO 9504838A1

Cited by

EP1577412A4; EP4116445A1; US5810951A; EP1069198A4; US2022010827A1; EP1072689A1; FR2796966A1; DE19632370A1; DE19632370C2; US7749338B2; US6475305B1; US6328826B1; US6264767B1; US6309482B1; WO9641024A1; US9975134B2

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EP 94923079 A 19940804; CN 94190577 A 19940804; JP 50633695 A 19940804; JP 9401297 W 19940804; KR 19950701263 A 19950401; NO 951288 A 19950403