

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 A1 19950809 (EN)

Application

EP 94923079 A 19940804

Priority

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Abstract (en)

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>

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IPC 8 full level

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CPC (source: EP KR)

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Cited by

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

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