

Title (en)
LOW-YIELD RATIO STEEL SHEET HAVING EXCELLENT LOW-TEMPERATURE TOUGHNESS AND METHOD FOR MANUFACTURING SAME

Title (de)
STAHLBLECH MIT NIEDRIGER STRECKGRENZE, HERVORRAGENDER TIEFTEMPERATURZÄHIGKEIT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
TÔLE D'ACIER À FAIBLE RAPPORT D'ÉLASTICITÉ PRÉSENTANT UNE EXCELLENTE TÉNACITÉ À BASSE TEMPÉRATURE ET SON PROCÉDÉ DE FABRICATION

Publication
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Application
EP 17882705 A 20171208

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Abstract (en)
[origin: EP3561107A1] An aspect of the present invention relates to a low-yield ratio steel sheet having excellent low-temperature toughness, the steel sheet comprising, in terms of weight%, 0.05-0.1% of C, 0.3-0.7% of Si, 1.0-2.0% of Mn, 0.005-0.04% of Al, 0.04-0.07% of Nb, 0.001-0.02% of Ti, 0.05-0.4% of Cu, 0.1-0.6% of Ni, 0.01-0.08% of Mo, 0.001-0.008% of N, 0.015% or less of P, 0.003% or less of S, and the remainder Fe and unavoidable impurities, wherein a microstructure comprises, by area fraction, -80-92% of ferrite and 8-20% of MA (martensite/austenite mixed structure), the average size of the MA measured for a circle-equivalent diameter being 3# or less.

IPC 8 full level
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Citation (search report)
• [I] EP 2940172 A1 20151104 - POSCO [KR]
• [A] JP 2013049895 A 20130314 - JFE STEEL CORP
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• [A] JP 2012031509 A 20120216 - JFE STEEL CORP
• [A] US 7520943 B2 20090421 - ISHIKAWA NOBUYUKI [JP], et al
• See references of WO 2018117507A1

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