

Title (en)
HIGH STRENGTH STEEL SHEET AND MANUFACTURING METHOD THEREFOR

Title (de)
HOCHFESTE STAHLPLATTE UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER À HAUTE RÉSISTANCE ET SON PROCÉDÉ DE FABRICATION

Publication
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Application
EP 18891912 A 20181128

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Abstract (en)
[origin: EP3730655A1] A high strength steel sheet according to an aspect of the present invention comprises, by weight %, 0.05-0.20% of C, 0.15-0.55% of Si, 0.9-1.75% of Mn, 0.001-0.05% of Al, 0.03 % or less of P, 0.03% or less of S, 0.05-0.3% of Cr, 0.05-0.6% of Ni, 0.005-0.35% of Cu, 0.05-0.2% of Mo, 0.005-0.07% of V, 0.005-0.04% of Nb, 0.0005-0.005% of Ca, 0.005-0.025% of Ti, 0.002-0.006% of N, less than 0.0005% of B, the balance of Fe and inevitable impurities, with the proviso of satisfying the relation that Cu + Ni + Cr + Mo: 1.5% or less; Cr + Mo: 0.4% or less; V + Nb: 0.1% or less; and Ca/S: 1.0 or higher and may include a combined structure of tempered martensite and tempered bainite as a microstructure.

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Citation (search report)
• [I] WO 2010074473 A2 20100701 - POSCO [KR], et al
• [I] JP 2015124435 A 20150706 - JFE STEEL CORP, et al
• [A] KR 100833069 B1 20080527 - POSCO [KR]
• [A] JP 2014218707 A 20141120 - JFE STEEL CORP
• See references of WO 2019124793A1

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