

Title (en)

HIGH CARBON HOT-ROLLED STEEL SHEET AND METHOD FOR PRODUCTION THEREOF

Title (de)

KOHLENSTOFFREICHES HEISSGEWALZTES STAHLBLECH UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TÔLE EN ACIER LAMINÉ À CHAUD, À TENEUR EN CARBONE ÉLEVÉE, ET SON PROCÉDÉ DE FABRICATION

Publication

EP 2103697 A4 20150311 (EN)

Application

EP 07860538 A 20071221

Priority

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- JP 2006347539 A 20061225

Abstract (en)

[origin: EP2103697A1] The present invention provides a high-carbon hot-rolled steel sheet having excellent bending properties after stretching and a method of producing the same. A method of producing a high-carbon hot-rolled steel sheet includes a step of hot-rolling steel having a composition containing, in % by mass, 0.2 to 0.7% of C, 2% or less of Si, 2% or less of Mn, 0.03% or less of P, 0.03% or less of S, 0.01% or less of Sol. Al, and 0.01% or less of N at a finishing temperature of (Ar 3 transformation point - 20°C) or more to form a hot-rolled steel sheet, a step of cooling the hot-rolled steel sheet to a temperature of 650°C or less at a cooling rate of 60 °C/sec to less than 120 °C/sec, a step of coiling the hot-rolled steel sheet at a coiling temperature of 600°C or less after cooling, and a step of annealing the hot-rolled steel sheet at an annealing temperature of 640°C to Ac 1 transformation point.

IPC 8 full level

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Citation (search report)

- [E] EP 2003220 A1 20081217 - JFE STEEL CORP [JP]
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- See references of WO 2008081956A1

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