Title (en)

HIGH STRENGTH HOT ROLLED STEEL SHEET CONTAINING HIGH MN CONTENT WITH EXCELLENT WORKABILITY AND METHOD FOR MANUFACTURING THE SAME

Title (de)

HOCHFESTES KALTGEWALZTES STAHLBLECH MIT HOHEM MN-GEHALT MIT HERVORRAGENDER BEARBEITBARKEIT UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

TOLE EN ACIER LAMINEE A CHAUD DE GRANDE RESISTANCE AYANT UNE TENEUR ELEVEE EN MN ET PRESENTANT UNE EXCELLENTE MANIABILITE, ET SON PROCEDE DE FABRICATION

Publication

EP 1937861 A4 20100324 (EN)

Application

EP 06798530 A 20060823

Priority

- KR 2006003303 W 20060823
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Abstract (en)

[origin: WO2007024092A1] A hot rolled steel sheet used for a bumper reinforcing material or for an impact absorption material in a door of automobiles, and a method for manufacturing the same are disclosed. The steel sheet comprises, by weight%, C: 0.2% ~ 1%, Mn: 8 ~ 15%, S: 0.05% or less, P: 0.03% or less, and the balance of Fe and other unavoidable impurities. A product of tensile strength and total elongation (TS x ToLEl) of the steel sheet is 24,000 MPa% or more. The method provides a high strength hot rolled steel sheet, which has a high strength-elongation balance value, ensuring excellent workability.

IPC 8 full level

C21D 1/02 (2006.01); **C21D 8/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/08** (2006.01)

CPC (source: EP KR US)

C21D 6/005 (2013.01 - EP KR US); **C21D 8/02** (2013.01 - EP KR US); **C21D 8/0205** (2013.01 - EP KR US); **C21D 8/04** (2013.01 - EP KR US); **C21D 8/0405** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP KR US); C21D 2211/001 (2013.01 - EP KR US)

Citation (search report)

- [XP] WO 2006082104 A1 20060810 - CORUS STAAL BV [NL], et al
- [X] WO 9313233 A1 19930708 - PO HANG IRON & STEEL [KR], et al
- See references of WO 2007024092A1

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EP1846584B1; EP1846584B2

Designated contracting state (EPC)

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