

Title (en)

MEDIUM-/HIGH-CARBON STEEL SHEET AND METHOD FOR MANUFACTURING SAME

Title (de)

STAHLBLECH MIT MITTELHOHEM/HOHEM KOHLENSTOFFGEHALT UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

TÔLE D'ACIER À TENEUR EN CARBONE MOYENNE/ÉLEVÉE ET SON PROCÉDÉ DE FABRICATION

Publication

EP 3115475 A4 20170913 (EN)

Application

EP 15758268 A 20150309

Priority

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Abstract (en)

[origin: EP3115475A1] A middle/high carbon steel sheet according to an aspect of the present invention is a steel sheet, in which composition thereof contains, by mass%, C: 0.10% to 1.50%, Si: 0.01% to 1.00%, Mn: 0.01% to 3.00%, P: 0.0001% to 0.1000%, and S: 0.0001 % to 0.1000%, and a remainder consisting of Fe and impurities, in which the steel sheet has a structure in which a total volume percentage of a martensite, a bainite, a pearlite, and a residual austenite is equal to or lower than 5.0%, and a remainder thereof is a ferrite and carbides, in which a spheroidizing ratio of carbide particles is 70% to 99%, and in which a proportion of a number of the carbide particles including a crystal interface at which an orientation difference is equal to or greater than 5° in the carbide particles is equal to or lower than 20% of a total number of the carbide particles.

IPC 8 full level

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Citation (search report)

- [X] JP 2007119883 A 20070517 - JFE STEEL KK
- [A] JP 2008291304 A 20081204 - JFE STEEL KK
- [A] JP 2007270331 A 20071018 - JFE STEEL KK
- See references of WO 2015133644A1

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