Title (en)

STEEL PLATE HAVING EXCELLENT FINE BLANKING PROCESSABILITY AND METHOD FOR MANUFACTURE THEREOF

Title (de)

STAHLPLATTE MIT HERVORRAGENDER FEINSTANZUNGSEIGNUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

PLAQUE EN ACIER AYANT UNE EXCELLENTE APTITUDE A LA TRANSFORMATION PAR DECOUPAGE FIN ET SON PROCEDE DE FABRICATION

Publication

EP 2003220 A4 20100224 (EN)

Application

EP 07713805 A 20070129

Priority

- JP 2007051843 W 20070129
- JP 2006100794 A 20060331

Abstract (en)

[origin: EP2003220A1] A steel sheet excellent in FB performance and also excellent in fabrication performance after FB working and a manufacturing method of the same are provided. The steel sheet is a steel sheet having a composition containing from 0.1 to 0.5% of C, not more than 0.5 % of Si and from 0.2 to 1.5 % of Mn in terms of % by mass, with P and S being adjusted at proper ranges and having a structure having a ferrite having an average grain size of more than 10 μm and less than 20 μm and a cementite present in the ferrite grain having an average particle size of from 0.3 to 1.5 μm. In this way, the steel sheet becomes a steel sheet excellent in FB performance, mold life and performance (side bend elongation) after FB working.

IPC 8 full level

C22C 38/00 (2006.01); **C21D 9/46** (2006.01)

CPC (source: EP KR US)

C22B 5/12 (2013.01 - KR); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/04** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - KR); **C22C 38/22** (2013.01 - EP US)

Citation (search report)

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- [X] FUJITA TAKESHI, NAKAMURA NOBUYUKI, IIZUKA SHUNJI: "High-Carbon Steel Sheets for Power Train Parts -Formable High-Carbon Steel Sheets Suitable for One-Piece Forming-", JFE TECHNICAL REPORT, no. 4, 1 November 2004 (2004-11-01) - 1 November 2004 (2004-11-01), pages 44 - 49, XP002562361, Retrieved from the Internet <URL:http://www.jfe-steel.co.jp/en/research/report/004/pdf/004-08.pdf> [retrieved on 20100105]
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DOCDB simple family (application)

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