

Title (en)
FERRITIC STAINLESS STEEL SHEET

Title (de)
BLECH AUS EINEM FERRITISCHEN EDELSTAHL

Title (fr)
TÔLE D'ACIER INOXYDABLE FERRITIQUE

Publication
EP 3878993 A4 20220622 (EN)

Application
EP 18939476 A 20181109

Priority
JP 2018041660 W 20181109

Abstract (en)
[origin: EP3878993A1] This ferritic stainless steel sheet contains Cr: 11.0% or more and 25.0% or less, C: 0.001 % or more and 0.010% or less, Si: 0.01% or more and 1.0% or less, Mn: 0.01 % or more and 1.0% or less, P: 0.10% or less, S: 0.01% or less, and N: 0.002% or more and 0.020% or less, and either one or both of Ti: 1.0% or less and Nb: 1.0% or less, with a remainder of Fe and impurities. The ferritic stainless steel sheet has a ferrite single-phase microstructure in which the grain size number is larger than 9.0, and the random intensity ratios of crystal orientations in planes parallel to a rolled surface at a sheet thickness 1/2 position and a sheet thickness 1/10 position are $I_{\{554\}\langle 225 \rangle} \geq 7.0$, $I_{\{411\}\langle 148 \rangle} \geq 0.9$, and $I_{\{211\}\langle 011 \rangle} \geq 1.0$.

IPC 8 full level
C22C 38/00 (2006.01); **C21D 9/46** (2006.01); **C21D 9/48** (2006.01); **C22C 38/28** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)
C21D 1/26 (2013.01 - EP); **C21D 6/002** (2013.01 - EP); **C21D 8/0205** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP); **C21D 8/0236** (2013.01 - EP); **C21D 8/0263** (2013.01 - EP); **C21D 8/0273** (2013.01 - EP); **C21D 9/46** (2013.01 - EP); **C21D 9/48** (2013.01 - EP KR); **C22C 38/001** (2013.01 - EP KR); **C22C 38/002** (2013.01 - EP); **C22C 38/004** (2013.01 - EP); **C22C 38/005** (2013.01 - EP); **C22C 38/008** (2013.01 - EP); **C22C 38/02** (2013.01 - EP); **C22C 38/04** (2013.01 - EP); **C22C 38/06** (2013.01 - EP); **C22C 38/20** (2013.01 - EP); **C22C 38/22** (2013.01 - EP); **C22C 38/24** (2013.01 - EP); **C22C 38/26** (2013.01 - EP KR); **C22C 38/28** (2013.01 - EP KR); **C22C 38/30** (2013.01 - EP); **C22C 38/32** (2013.01 - EP); **C22C 38/42** (2013.01 - EP KR); **C22C 38/44** (2013.01 - EP KR); **C22C 38/46** (2013.01 - EP KR); **C22C 38/48** (2013.01 - EP); **C22C 38/50** (2013.01 - EP KR); **C22C 38/52** (2013.01 - KR); **C22C 38/54** (2013.01 - EP); **C22C 38/60** (2013.01 - EP KR); **C21D 2201/05** (2013.01 - EP); **C21D 2211/005** (2013.01 - EP KR)

Citation (search report)

- [ID] JP H07292417 A 19951107 - SUMITOMO METAL IND
- [A] JP 2010043321 A 20100225 - NIPPON STEEL & SUMIKIN SST
- [A] JP 2006193771 A 20060727 - NIPPON STEEL & SUMIKIN SST
- [A] US 2009000703 A1 20090101 - HAMADA JUNICHI [JP], et al
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- [A] JP 2017201049 A 20171109 - NIPPON STEEL & SUMIKIN SST
- See references of WO 2020095437A1

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