

Title (en)

AUSTENITIC STAINLESS STEEL SHEET AND METHOD FOR PRODUCING SAME

Title (de)

AUSTENITISCHES EDELSTAHLBLECH UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

TÔLE D'ACIER INOXYDABLE AUSTÉNITIQUE ET PROCÉDÉ DE PRODUCTION DE LADITE TÔLE

Publication

**EP 3862452 A4 20220629 (EN)**

Application

**EP 19868476 A 20191004**

Priority

- JP 2018189321 A 20181004
- JP 2019039288 W 20191004

Abstract (en)

[origin: EP3862452A1] An austenitic stainless steel sheet containing, as a chemical composition, by mass%: C: 0.005% to 0.150%; Si: 1.0% or less; Mn: 1.5% or less; P: 0.10% or less; S: 0.010% or less; Al: 0.10% or less; Cr: 15.0% to 20.0%; Ni: 6.0% to 15.0%; N: 0.005% to 0.150%; Mo: 0% to 2.0%; Cu: 0% to 1.5%; Nb: 0% to 0.500%; V: 0% to 0.150%; Ti: 0% to 0.300%; B: 0% to 0.010%; and a remainder: Fe and impurities, in which a Md30 value determined according to Md30 Value = 497 - 462 × (C + N) - 9.2 × Si - 8.1 × Mn - 13.7 × Cr - 20 × (Ni + Cu) - 18.7 × Mo is 60°C or less, and in a surface layer portion, the area ratio of martensite is 5.0% or less, and the area ratio of austenite grains having a {110} plane orientation is 50% or greater.

IPC 8 full level

**C21D 1/30** (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C21D 9/46** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (2006.01); **C22C 38/40** (2006.01); **C22C 38/42** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/48** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **C22C 38/60** (2006.01)

CPC (source: EP KR)

**C21D 1/30** (2013.01 - EP); **C21D 6/004** (2013.01 - EP); **C21D 8/0205** (2013.01 - EP); **C21D 8/0226** (2013.01 - EP); **C21D 8/0236** (2013.01 - EP); **C21D 8/0247** (2013.01 - EP); **C21D 8/0263** (2013.01 - EP); **C21D 8/0273** (2013.01 - EP); **C21D 9/46** (2013.01 - EP KR); **C22C 38/001** (2013.01 - EP); **C22C 38/002** (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 38/40** (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 KR); **C22C 38/50** (2013.01 - EP KR); **C22C 38/54** (2013.01 - EP KR); **C22C 38/60** (2013.01 - EP); **C21D 2211/001** (2013.01 - KR)

Citation (search report)

- [X] WO 2016047734 A1 20160331 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
- [A] JP 2017014538 A 20170119 - NIPPON STEEL & SUMIKIN SST
- [A] US 2009202380 A1 20090813 - CONRAD FRANCOIS [FR], et al
- [A] US 2014017517 A1 20140116 - KAWAGOE TAKAFUMI [JP], et al
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- [A] WO 2014030607 A1 20140227 - NIPPON STEEL & SUMITOMO METAL CORP [JP]
- [A] US 2018237882 A1 20180823 - UNNO HIROTO [JP], et al
- See references of WO 2020071534A1

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DOCDB simple family (application)

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