

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 A1 20210811 (EN)

Application

EP 19868476 A 20191004

Priority

- JP 2018189321 A 20181004
- JP 2019039288 W 20191004

Abstract (en)

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 $Md30 \text{ Value} = 497 - 462 \times (C + N) - 9.2 \times Si - 8.1 \times Mn - 13.7 \times Cr - 20 \times (Ni + Cu) - 18.7 \times Mo$ 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 9/46 (2006.01); **C22C 38/00** (2006.01); **C22C 38/54** (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)

Designated contracting state (EPC)

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EP 3862452 A1 20210811; **EP 3862452 A4 20220629**; CN 112789362 A 20210511; CN 112789362 B 20220816; JP 7165202 B2 20221102; JP WO2020071534 A1 20210902; KR 102550028 B1 20230703; KR 20210052502 A 20210510; WO 2020071534 A1 20200409

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