

Title (en)
STRUCTURAL STAINLESS STEEL SHEET HAVING EXCELLENT CORROSION RESISTANCE IN WELDED PART, AND METHOD FOR PRODUCING SAME

Title (de)
STAHLBLECH AUS STRUKTURELLEM EDELSTAHL MIT HERVORRAGENDER KORROSIONSBESTÄNDIGKEIT IM GESCHWEISSTEN TEIL SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
TÔLE D'ACIER INOXYDABLE DE CONSTRUCTION AYANT UNE EXCELLENTE RÉSISTANCE À LA CORROSION DANS LA PARTIE SOUDÉE, ET SON PROCÉDÉ DE PRODUCTION

Publication
EP 2578715 A4 20150819 (EN)

Application
EP 11789877 A 20110526

Priority
• JP 2010124059 A 20100531
• JP 2011062640 W 20110526

Abstract (en)
[origin: EP2578715A1] A structural stainless steel sheet which can be manufactured at a low cost and with high efficiency, and possesses excellent welded-part corrosion resistance and a manufacturing method thereof are provided. To be more specific, the structural stainless steel sheet has a composition which contains by mass% 0.01 to 0.03% C, 0.01 to 0.03% N, 0.10 to 0.40% Si, 1.5 to 2.5% Mn, 0.04% or less P, 0.02% or less S, 0.05 to 0.15% Al, 10 to 13% Cr, 0.5 to 1.0% Ni, 4x (C+N) or more and 0.3% or less Ti, and Fe and unavoidable impurities as a balance, V, Ca and O in the unavoidable impurities being regulated to 0.05% or less V, 0.0030% or less Ca and 0.0080% or less O, wherein an F value expressed by $Cr + 2 \times Si + 4 \times Ti - 2 \times Ni - Mn - 30 \times (C + N)$ satisfies a condition that $F \text{ value} \geq 11$ and an FFV value expressed by satisfies a condition that $FFV \text{ value} \geq 9.0$.

IPC 8 full level
C22C 38/00 (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)
B21B 9/00 (2013.01 - KR US); **C21D 6/005** (2013.01 - EP KR US); **C21D 9/0068** (2013.01 - EP KR US); **C21D 9/46** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/002** (2013.01 - EP KR US); **C22C 38/02** (2013.01 - EP KR US); **C22C 38/06** (2013.01 - EP KR US); **C22C 38/42** (2013.01 - EP KR US); **C22C 38/46** (2013.01 - EP KR US); **C22C 38/50** (2013.01 - EP KR US); **C22C 38/58** (2013.01 - EP KR US)

Citation (search report)
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• [A] EP 1314791 A1 20030528 - KAWASAKI STEEL CO [JP]
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