

Title (en)  
DUPLEX STAINLESS STEEL, DUPLEX STAINLESS STEEL SLAB, AND DUPLEX STAINLESS STEEL MATERIAL

Title (de)  
ROSTFREIER DUPLEXSTAHL, PLATTE AUS DEM ROSTFREIEN DUPLEXSTAHL UND MATERIAL AUS DEM ROSTFREIEN DUPLEXSTAHL

Title (fr)  
ACIER INOXYDABLE DUPLEX, BRAME D'ACIER INOXYDABLE DUPLEX ET MATÉRIAU D'ACIER INOXYDABLE DUPLEX

Publication  
**EP 2770076 B1 20191204 (EN)**

Application  
**EP 12842430 A 20121017**

Priority

- JP 2011231352 A 20111021
- JP 2011266351 A 20111206
- JP 2012076821 W 20121017

Abstract (en)  
[origin: EP2770076A1] One aspect of this duplex stainless steel contains, in mass%, C: 0.03% or less, Si: 0.05% to 1.0%, Mn: 0.1% to 7.0%, P: 0.05% or less, S: 0.0001% to 0.0010%, Ni: 0.5% to 5.0%, Cr: 18.0% to 25.0%, N: 0.10% to 0.30%, Al: 0.05% or less, Ca: 0.0010% to 0.0040%, and Sn: 0.01% to 0.2%, with the remainder being Fe and inevitable impurities, wherein a ratio Ca/O of the amounts of Ca and O is in a range of 0.3 to 1.0, and a pitting index PI shown by formula (1) is in a range of less than 30,  $PI = Cr + 3.3 \#C Mo + 16 \#C N$

IPC 8 full level  
**C22C 38/00** (2006.01); **C21D 6/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/02** (2006.01); **C22C 38/04** (2006.01); **C22C 38/06** (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 38/52** (2006.01); **C22C 38/54** (2006.01); **C22C 38/58** (2006.01)

CPC (source: EP KR US)  
**C21D 6/004** (2013.01 - EP US); **C21D 8/0226** (2013.01 - EP US); **C21D 8/0263** (2013.01 - EP US); **C22C 38/00** (2013.01 - EP US); **C22C 38/001** (2013.01 - EP KR US); **C22C 38/002** (2013.01 - EP US); **C22C 38/004** (2013.01 - EP US); **C22C 38/005** (2013.01 - EP US); **C22C 38/008** (2013.01 - EP US); **C22C 38/02** (2013.01 - EP US); **C22C 38/04** (2013.01 - EP US); **C22C 38/06** (2013.01 - EP US); **C22C 38/42** (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C22C 38/46** (2013.01 - EP US); **C22C 38/48** (2013.01 - EP US); **C22C 38/50** (2013.01 - EP US); **C22C 38/52** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **C22C 38/58** (2013.01 - EP KR US)

Cited by  
WO2016120525A1; EP3250732A4; EP3276028A4; US11001932B2

Designated contracting state (EPC)  
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