

Title (en)

TWO-PHASE STAINLESS STEEL AND PRODUCTION METHOD THEREFOR

Title (de)

ZWEIPHASICHER EDELSTAHL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ACIER INOXYDABLE À DEUX PHASES ET SON PROCÉDÉ DE PRODUCTION

Publication

EP 3211107 A1 20170830 (EN)

Application

EP 15852926 A 20151023

Priority

- JP 2014217632 A 20141024
- JP 2015079962 W 20151023

Abstract (en)

A duplex stainless steel is provided that has a chemical composition comprising, by mass%, C: 0.03% or less, Si: 1.0% or less, Mn: 1.0% or less, P: 0.04% or less, S: 0.01% or less, Cu: 0.1 to 1.0%, Ni: 5.0 to 7.5%, Cr: 22.0 to 26.0%, W: 6.0 to 12.0%, N: 0.20 to 0.32%, Mo: 0.01% or less, and a balance: Fe and impurities, in which a metal micro-structure contains, by area ratio, 0.40 to 0.60 of an \pm -phase, with a balance being a 3 -phase and 0.01 or less of other phases.

IPC 8 full level

C22C 38/42 (2006.01); **C21D 6/00** (2006.01); **C21D 8/00** (2006.01); **C21D 8/02** (2006.01); **C22C 38/00** (2006.01); **C22C 38/02** (2006.01);
C22C 38/04 (2006.01); **C22C 38/44** (2006.01)

CPC (source: EP US)

C21D 6/004 (2013.01 - EP US); **C21D 6/005** (2013.01 - US); **C21D 6/008** (2013.01 - US); **C21D 8/005** (2013.01 - EP US);
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C22C 38/42 (2013.01 - EP US); **C22C 38/44** (2013.01 - EP US); **C21D 8/0205** (2013.01 - EP US); **C21D 8/0247** (2013.01 - EP US);
C21D 2211/001 (2013.01 - EP US); **C21D 2211/004** (2013.01 - EP US); **C21D 2211/005** (2013.01 - EP US)

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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