

Title (en)

GRAIN BOUNDARY COHESION ENHANCED SULFIDE STRESS CRACKING (SSC)-RESISTANT STEEL ALLOYS

Title (de)

KORNGRENZENKOHÄSIONSVARBESSERTE STAHLLEGIERUNGEN MIT BESTÄNDIGKEIT GEGEN SULFIDSPANNUNGSRISSBILDUNG (SSC)

Title (fr)

ALLIAGES D'ACIER RÉSISTANTS AUX FISSURES SOUS CONTRAINTE INDUITE PAR SULFURE ET À COHÉSION RENFORCÉE ENTRE LES GRAINS

Publication

EP 3380641 A4 20190605 (EN)

Application

EP 16869287 A 20161123

Priority

- US 201562259835 P 20151125
- US 2016063622 W 20161123

Abstract (en)

[origin: US2017145547A1] Alloys, processes for preparing the alloys, and articles including the alloys are provided. The alloys can include, by weight, about 0% to about 8% nickel, about 1% to about 6% tungsten, about 1% to about 4% copper, about 0.1% to about 2% chromium, about 0.01% to about 1% vanadium, about 0.01% to about 0.5% carbon, about 0.01% to about 0.1% titanium, about 0.001% to about 0.01% boron, about 0% to about 1% silicon, and about 0% to about 0.1% calcium, the balance essentially iron and incidental elements and impurities.

IPC 8 full level

C22C 38/42 (2006.01); **B22D 18/00** (2006.01); **C21D 1/18** (2006.01); **C21D 1/25** (2006.01); **C21D 6/00** (2006.01); **C21D 8/10** (2006.01); **C21D 9/08** (2006.01); **C22C 38/44** (2006.01); **C22C 38/46** (2006.01); **C22C 38/50** (2006.01); **C22C 38/54** (2006.01); **F16L 9/02** (2006.01)

CPC (source: EP US)

C21D 1/18 (2013.01 - EP US); **C21D 1/25** (2013.01 - EP US); **C21D 6/004** (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 38/50** (2013.01 - EP US); **C22C 38/54** (2013.01 - EP US); **B22D 18/00** (2013.01 - US); **C21D 8/105** (2013.01 - EP US); **C21D 9/08** (2013.01 - EP US); **F16L 9/02** (2013.01 - EP US)

Citation (search report)

- [XA] JP H08120399 A 19960514 - SUMITOMO METAL IND
- [A] EP 2796587 A1 20141029 - JFE STEEL CORP [JP]
- [A] JP 2007332442 A 20071227 - JFE STEEL KK
- See references of WO 2017091743A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2017145547 A1 20170525; BR 112018010493 A2 20181113; BR 112018010493 A8 20190226; EP 3380641 A1 20181003; EP 3380641 A4 20190605; MX 2018006361 A 20181109; WO 2017091743 A1 20170601

DOCDB simple family (application)

US 201615360655 A 20161123; BR 112018010493 A 20161123; EP 16869287 A 20161123; MX 2018006361 A 20161123; US 2016063622 W 20161123