

Title (en)

Aluminium alloy resistant to intercristalline corrosion

Title (de)

Gegen interkristalline Korrosion beständige Aluminiumlegierung

Title (fr)

Alliages d'aluminium résistant à la corrosion intercristalline

Publication

**EP 2703508 B1 20160330 (DE)**

Application

**EP 12182038 A 20120828**

Priority

EP 12182038 A 20120828

Abstract (en)

[origin: EP2703508A1] An aluminum alloy comprises 2.91-4.5 wt.% magnesium, 0.5-0.8 wt.% manganese, 0.05-0.3 wt.% copper, 0.05-0.3 wt.% chromium, 0.05-0.9 wt.% zinc, 0.4 wt.% or less iron, 0.25 wt.% or less silicon, 0.2 wt.% or less titanium, remainder of aluminum, and unavoidable impurities. The content of zinc, chromium, copper, manganese and magnesium is 0.05-0.15 wt.%. An aluminum alloy comprises 2.91-4.5 wt.% magnesium, 0.5-0.8 wt.% manganese, 0.05-0.3 wt.% copper, 0.05-0.3 wt.% chromium, 0.05-0.9 wt.% zinc, 0.4 wt.% or less iron, 0.25 wt.% or less silicon, 0.2 wt.% or less titanium, remainder of aluminum, and unavoidable impurities. The content of zinc, chromium, copper, manganese and magnesium is 0.05-0.15 wt.%, and satisfies the relation:  $(2.3x\%Zn+1.25x\%Cr+0.65x\%Cu+0.05x\%Mn)+2.4 \geq \%Mg$ . Independent claims are included for the following: (1) use of aluminum alloy; and (2) manufacture of aluminum alloy strip and sheet.

IPC 8 full level

**C22C 21/06** (2006.01); **C22F 1/047** (2006.01)

CPC (source: CN EP RU US)

**C22C 21/06** (2013.01 - CN EP RU US); **C22C 21/08** (2013.01 - CN EP US); **C22F 1/047** (2013.01 - CN EP US)

Cited by

RU2717622C1; WO2018034960A1

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DOCDB simple family (publication)

**EP 2703508 A1 20140305; EP 2703508 B1 20160330;** CA 2882613 A1 20140206; CA 2882613 C 20161011; CN 104797727 A 20150722; CN 104797727 B 20181123; ES 2569664 T3 20160512; JP 2015532680 A 20151112; JP 5908178 B2 20160426; KR 101644584 B1 20160801; KR 20150070119 A 20150624; RU 2015111238 A 20161027; RU 2634822 C2 20171103; US 10113222 B2 20181030; US 2015152537 A1 20150604; US 2017152589 A9 20170601; WO 2014033048 A1 20140306

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**EP 12182038 A 20120828;** CA 2882613 A 20130822; CN 201380045479 A 20130822; EP 2013067481 W 20130822; ES 12182038 T 20120828; JP 2015528968 A 20130822; KR 20157007982 A 20130822; RU 2015111238 A 20130822; US 201514617469 A 20150209