

Title (en)

IMPROVED THICK WROUGHT 7XXX ALUMINUM ALLOYS, AND METHODS FOR MAKING THE SAME

Title (de)

VERBESSERTE DICKE KNETLEGIERUNGEN AUS 7XXX-ALUMINIUM UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)

ALLIAGES D'ALUMINIUM DE SÉRIE 7XXX CORROYÉS ÉPAIS AMÉLIORÉS ET PROCÉDÉS DE PRODUCTION CORRESPONDANTS

Publication

EP 3294917 A4 20180926 (EN)

Application

EP 16793338 A 20160509

Priority

- US 201562159768 P 20150511
- US 2016031525 W 20160509

Abstract (en)

[origin: WO2016183030A1] Improved wrought 7xxx aluminum alloy products are disclosed. The improved wrought 7xxx aluminum alloy products generally include 6.0 - 10.0 wt. % Zn, 1.4 - 2.2 wt. % Mg, 1.3 - 2.5 wt. % Cu and 0.080 - 0.250 wt. % Cr. The improved wrought 7xxx aluminum alloy products generally have a thickness of from 3.0 inches to 12 inches, and realize an improved combination of properties, such an improved combination of crack deviation resistance, strength, fracture toughness and corrosion resistance.

IPC 8 full level

C22C 21/10 (2006.01); **C22F 1/053** (2006.01)

CPC (source: EP KR RU US)

B22D 7/005 (2013.01 - EP KR US); **C22C 21/10** (2013.01 - EP KR RU US); **C22F 1/053** (2013.01 - EP US); **C22F 1/10** (2013.01 - KR)

Citation (search report)

See references of WO 2016183030A1

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)

WO 2016183030 A1 20161117; CA 2982482 A1 20161117; CA 2982482 C 20230613; CN 107592887 A 20180116; CN 107592887 B 20201208; EP 3294917 A1 20180321; EP 3294917 A4 20180926; EP 3294917 B1 20220302; EP 4074851 A1 20221019; KR 102610549 B1 20231205; KR 20180004736 A 20180112; RU 2017142718 A 20190611; RU 2017142718 A3 20191017; RU 2752487 C2 20210728; US 2017088920 A1 20170330

DOCDB simple family (application)

US 2016031525 W 20160509; CA 2982482 A 20160509; CN 201680027501 A 20160509; EP 16793338 A 20160509; EP 22158417 A 20160509; KR 20177033267 A 20160509; RU 2017142718 A 20160509; US 201615376400 A 20161212