

Title (en)

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

Title (de)

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

Title (fr)

ALLIAGES D'ALUMINIUM 7XXX CORROYÉS AMÉLIORÉS, ET PROCÉDÉS DE PRODUCTION ASSOCIÉS

Publication

EP 3368702 A1 20180905 (EN)

Application

EP 16860785 A 20161027

Priority

- US 201562248165 P 20151029
- US 2016059120 W 20161027

Abstract (en)

[origin: WO2017075217A1] New wrought 7xxx aluminum alloys are disclosed. The new wrought 7xxx aluminum alloys generally include from 3.75 to 8.0 wt. % Zn, from 1.25 to 3.0 wt. % Mg, where the wt. % Zn exceeds the wt. % Mg, from 0.35 to 1.35 wt. % Cu, from 0.04 to 0.20 wt. % V, from 0.06 to 0.20 wt. % Zr, where $V+Zr \leq 0.23$ wt. %, from 0.01 to 0.25 wt. % Ti, up to 0.50 wt. % Mn, up to 0.40 wt. % Cr, up to 0.35 wt. % Fe, and up to 0.25 wt. % Si, the balance being aluminum and impurities, wherein the wrought 7xxx aluminum alloy include not greater than 0.10 wt. % each of any one impurity, and wherein the wrought 7xxx aluminum alloy includes not greater than 0.35 wt. % in total of the impurities.

IPC 8 full level

C22C 21/10 (2006.01)

CPC (source: EP US)

C22C 21/10 (2013.01 - EP US); **C22F 1/053** (2013.01 - EP US)

Cited by

EP3927860A4

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017075217 A1 20170504; CA 3003158 A1 20170504; CA 3003158 C 20200707; CN 108291280 A 20180717; CN 108291280 B 20210511; EP 3368702 A1 20180905; EP 3368702 A4 20190717; EP 3368702 B1 20230816; EP 3368702 C0 20230816; HU E063975 T2 20240228; US 2017121795 A1 20170504

DOCDB simple family (application)

US 2016059120 W 20161027; CA 3003158 A 20161027; CN 201680070268 A 20161027; EP 16860785 A 20161027; HU E16860785 A 20161027; US 201615336443 A 20161027