Title (en)

ALUMINUM EXTRUSION ALLOY

Title (de)

ALUMINIUMEXTRUSIONSLEGIERUNG

Title (fr)

ALLIAGE D'EXTRUSION D'ALUMINIUM

Publication

EP 3891312 A4 20220921 (EN)

Application

EP 19891782 A 20191203

Priority

- US 201862774661 P 20181203
- US 2019064188 W 20191203

Abstract (en)

[origin: WO2020117771A1] An aluminum alloy includes Si and Mg in amounts (wt.%) within a quadrilateral defined by the following coordinates on an Mg/Si plot: I: 1.15 Si, 0.70 Mg, II: 0.95 Si, 0.55 Mg; III: 0.75 Si, 0.65 Mg; and IV: 0.95 Si, 0.85 Mg. The alloy also includes, in weight percent: Mn 0.40 – 0.80 Fe 0.25 max Cr 0.05 – 0.18 Cu 0.30 – 0.90 Ti 0.05 max Zr 0.03 max Zn 0.03 max B 0.01 max with the remainder of the alloy being aluminum and unavoidable impurities in amounts of up to 0.05 wt.% each and 0.15 wt.% total.

IPC 8 full level

C22C 21/06 (2006.01); **C22C 21/02** (2006.01); **C22C 21/04** (2006.01); **C22C 21/14** (2006.01); **C22C 21/16** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01); **C22F 1/043** (2006.01); **C22F 1/05** (2006.01)

CPC (source: EP US)

B21C 23/00 (2013.01 - US); **C22C 21/02** (2013.01 - EP US); **C22C 21/04** (2013.01 - EP); **C22C 21/06** (2013.01 - EP); **C22C 21/08** (2013.01 - US); **C22C 21/14** (2013.01 - EP); **C22C 21/16** (2013.01 - EP); **C22F 1/00** (2013.01 - EP); **C22F 1/04** (2013.01 - EP); **C22F 1/043** (2013.01 - EP); **C22F 1/05** (2013.01 - EP)

Citation (search report)

- [XI] CN 102319756 A 20120118 - SOUTHWEST ALUMINUM GROUP CO
- [XI] EP 3187604 A1 20170705 - KOBE STEEL LTD [JP]
- [A] EP 3339457 A1 20180627 - NORSK HYDRO AS [NO]
- [A] JP H01225756 A 19890908 - NIPPON LIGHT METAL CO
- See references of WO 2020117771A1

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 2020117771 A1 20200611; CA 3121249 A1 20200611; EP 3891312 A1 20211013; EP 3891312 A4 20220921; JP 2022513644 A 20220209; MX 2021006502 A 20210816; US 2022025489 A1 20220127

DOCDB simple family (application)

US 2019064188 W 20191203; CA 3121249 A 20191203; EP 19891782 A 20191203; JP 2021529819 A 20191203; MX 2021006502 A 20191203; US 201917299282 A 20191203