

Title (en)
AG-FREE AL-CU-MG-LI ALLOY

Title (de)
AG-FREIE AL-CU-MG-LI-LEGIERUNG

Title (fr)
ALLIAGE D' AL-CU-MG-LI EXEMPT D'AG

Publication
EP 3072985 A1 20160928 (DE)

Application
EP 15161222 A 20150327

Priority
EP 15161222 A 20150327

Abstract (de)
Beschrieben ist eine Ag-freie Al-CuMg-Li-Legierung mit 3,5 - 4,5 Gew.-% Cu, 0,8 - 1,3 Gew.-% Li, 0,2 - 0,8 Gew.-% Mg, 0,1 - 0,4 Gew.-% Mn, 0,05 - 0,2 Gew.-% Zr, bis zu 0,1 Gew.-% Ti, wobei das Ti als TiB 2 oder TiC vorliegt, Rest Al nebst unvermeidbaren Verunreinigungen von gesamt max. 0,15 Gew.-%.

IPC 8 full level
C22C 21/16 (2006.01); **C22F 1/057** (2006.01)

CPC (source: EP)
C22C 21/16 (2013.01); **C22F 1/057** (2013.01)

Citation (search report)

- [A] CHEN ZHONGWEI ET AL: "Combinative hardening effects of precipitation in a commercial aged Al-Cu-Li", MATERIALS SCIENCE AND ENGINEERING A: STRUCTURAL MATERIALS: PROPERTIES, MICROSTRUCTURES AND PROCESSING, vol. 588, 9 December 2013 (2013-12-09), pages 59 - 64, XP028758655, ISSN: 0921-5093, DOI: 10.1016/J.MSEA.2013.09.016
- [A] HUANG B P ET AL: "Independent and combined roles of trace Mg and Ag additions in properties precipitation process and precipitation kinetics of Al-Cu-Li-(Mg)-(Ag)-Zr-Ti alloys", ACTA MATERIALIA, ELSEVIER, OXFORD, GB, vol. 46, no. 12, 24 July 1998 (1998-07-24), pages 4381 - 4393, XP027395678, ISSN: 1359-6454, [retrieved on 19980724]

Cited by
CN106893911A; US11220729B2; US11242587B2; US11180839B2; WO2017201403A1

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)
EP 3072985 A1 20160928; EP 3072985 B1 20170705; EP 3072985 B2 20200826; ES 2642730 T3 20171117; ES 2642730 T5 20210609

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