

Title (en)  
2XXX SERIES ALUMINUM LITHIUM ALLOYS

Title (de)  
ALUMINIUM-LITHIUM-LEGIERUNGEN DER SERIE 2XXX

Title (fr)  
ALLIAGES D'ALUMINIUM LITHIUM DE SÉRIE 2XXX

Publication  
**EP 2885438 A4 20160406 (EN)**

Application  
**EP 13829189 A 20130814**

Priority  
• US 201261684268 P 20120817  
• US 201313785793 A 20130305  
• US 2013054938 W 20130814

Abstract (en)  
[origin: US2014050936A1] Wrought 2xxx aluminum lithium alloy products having a thickness of from 0.040 inch to 0.500 inch are disclosed. The wrought aluminum alloy products contain from 3.00 to 3.80 wt. % Cu, from 0.05 to 0.35 wt. % Mg, from 0.975 to 1.385 wt. % Li, wherein -0.3\*Mg-0.15Cu+1.65@Li@-0.3\*Mg-0.15Cu+1.85, from 0.05 to 0.50 wt. % of at least one grain structure control element, wherein the grain structure control element is selected from the group consisting of Zr, Sc, Cr, V, Hf, other rare earth elements, and combinations thereof, up to 1.0 wt. % Zn, up to 1.0 wt. % Mn, up to 0.12 wt. % Si, up to 0.15 wt. % Fe, up to 0.15 wt. % Ti, up to 0.10 wt. % of any other element, with the total of these other elements not exceeding 0.35 wt. %, the balance being aluminum.

IPC 8 full level  
**C22C 21/12** (2006.01)

CPC (source: CN EP US)  
**C22C 21/12** (2013.01 - CN); **C22C 21/14** (2013.01 - EP US); **C22C 21/16** (2013.01 - EP US); **C22C 21/18** (2013.01 - EP US); **C22F 1/057** (2013.01 - EP US); **Y10T 428/12** (2015.01 - EP US)

Citation (search report)  
• [A] US 2009142222 A1 20090604 - COLVIN EDWARD L [US], et al  
• [A] US 2011247730 A1 20111013 - YANAR CAGATAY [US], et al  
• See references of WO 2014028616A1

Cited by  
CN110029253A

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)  
**US 2014050936 A1 20140220**; CA 2880692 A1 20140220; CN 104583434 A 20150429; EP 2885438 A1 20150624; EP 2885438 A4 20160406; RU 2015109148 A 20161010; WO 2014028616 A1 20140220

DOCDB simple family (application)  
**US 201313785793 A 20130305**; CA 2880692 A 20130814; CN 201380043405 A 20130814; EP 13829189 A 20130814; RU 2015109148 A 20130814; US 2013054938 W 20130814