

Title (en)
ALUMINUM-COPPER-LITHIUM ALLOY FOR LOWER SURFACE ELEMENT

Title (de)
ALUMINIUM-KUPFER-LITHIUM-LEGIERUNG FÜR NIEDRIGERES OBERFLÄCHENELEMENT

Title (fr)
ALLIAGE ALUMINIUM-CUIVRE-LITHIUM POUR ELEMENT D'INTRADOS

Publication
EP 2569456 B1 20170906 (FR)

Application
EP 11725129 A 20110511

Priority
• US 33444610 P 20100513
• FR 1002033 A 20100512
• FR 2011000290 W 20110511

Abstract (en)
[origin: US2011278397A1] The present disclosure relates to an alloy containing aluminum including, as a % by weight, 2.1 to 2.4% of Cu, 1.3 to 1.6% of Li, 0.1 to 0.5% of Ag, 0.2 to 0.6% of Mg, 0.05 to 0.15% of Zr, 0.1 to 0.5% of Mn, 0.01 to 0.12% of Ti, optionally at least one element chosen from among Cr, Sc, and Hf, the quantity of the element, if it is chosen, being from 0.05 to 0.3% for Cr and Sc, 0.05 to 0.5% for Hf, a quantity of Fe and Si each less than or equal to 0.1 and inevitable impurities at a rate of less than or equal to 0.05 each and 0.15 in total. The alloy can be used to produce extruded, rolled and/or forged products particularly suitable for the manufacture of elements for the lower wing skin of aircrafts.

IPC 8 full level
C22C 21/00 (2006.01); **B64C 1/00** (2006.01); **C22C 21/12** (2006.01); **C22C 21/16** (2006.01); **C22F 1/04** (2006.01); **C22F 1/057** (2006.01)

CPC (source: EP US)
C22C 21/00 (2013.01 - EP US); **C22C 21/12** (2013.01 - EP US); **C22F 1/04** (2013.01 - EP US); **C22F 1/057** (2013.01 - EP US)

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 2011278397 A1 20111117; BR 112012028658 A2 20160809; CA 2798480 A1 20111117; CA 2798480 C 20180116;
CN 102985573 A 20130320; EP 2569456 A2 20130320; EP 2569456 B1 20170906; FR 2960002 A1 20111118; FR 2960002 B1 20131220;
WO 2011141647 A2 20111117; WO 2011141647 A3 20121101

DOCDB simple family (application)
US 201113106395 A 20110512; BR 112012028658 A 20110511; CA 2798480 A 20110511; CN 201180034070 A 20110511;
EP 11725129 A 20110511; FR 1002033 A 20100512; FR 2011000290 W 20110511