

Title (en)

SHEET MADE OF HIGH-TOUGHNESS ALUMINIUM ALLOY CONTAINING COPPER AND LITHIUM FOR AN AIRCRAFT FUSELAGE

Title (de)

BLECH AUS EINER HOCHFESTEN ALUMINIUMLEGIERUNG MIT KUPFER UND LITHIUM FÜR EINEN FLUGZEUGRUMPF

Title (fr)

TOLE EN ALUMINIUM-CUIVRE-LITHIUM A HAUTE TENACITE POUR FUSELAGE D'AVION

Publication

EP 1966402 A1 20080910 (FR)

Application

EP 06841937 A 20061214

Priority

- FR 2006002733 W 20061214
- FR 0512931 A 20051220

Abstract (en)

[origin: FR2894985A1] An aluminum alloy contains (by wt.%): (A) 2.1 to 2.8 of copper; (B) 1.1 to 1.7 of lithium; (C) 0.1 to 0.8 of silver; (D) 0.2 to 0.6 of magnesium; (E) 0.2 to 0.6 of manganese; (F) a quantity of iron and silicon = to 0.1; (G) inevitable impurities of = 0.05 each and 0.15 in total; (H) the alloy is essential exempt of zirconium, this being less than 0.04. Independent claims are also included for: (1) a rolled, extruded or forged product of this alloy; (2) the fabrication of a sheet of this alloy; (3) the rolled sheet thus obtained; (4) an aircraft fuselage panel incorporating the sheet; (5) a structural element for aeronautical construction.

IPC 8 full level

C22C 21/12 (2006.01)

CPC (source: EP)

C22C 21/12 (2013.01); **C22C 21/16** (2013.01); **C22F 1/057** (2013.01)

Cited by

FR3082210A1; FR3104172A1; WO2019234326A1; WO2021111069A1; FR3014448A1; CN114746566A; WO2014162069A1; WO2011141647A2; WO2015082779A3; WO2015082779A2; US10836464B2; WO2019122639A1; US11732333B2; WO2014167191A1; US10400313B2; WO2016051099A1; WO2013054013A1; WO2023144492A1; FR3132306A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2894985 A1 20070622; FR 2894985 B1 20080118; AT E426051 T1 20090415; CA 2633420 A1 20070719; CA 2633420 C 20141209; CN 101341267 A 20090107; CN 101341267 B 20100721; DE 06841937 T1 20090115; DE 602006005846 D1 20090430; EP 1966402 A1 20080910; EP 1966402 B1 20090318; ES 2323902 T3 20090727; RU 2008129812 A 20100127; RU 2418088 C2 20110510; WO 2007080267 A1 20070719

DOCDB simple family (application)

FR 0512931 A 20051220; AT 06841937 T 20061214; CA 2633420 A 20061214; CN 200680047951 A 20061214; DE 06841937 T 20061214; DE 602006005846 T 20061214; EP 06841937 A 20061214; ES 06841937 T 20061214; FR 2006002733 W 20061214; RU 2008129812 A 20061214