

Title (en)
HIGH-STRENGTH ALUMINUM-COPPER-LITHIUM SHEET METAL FOR AIRCRAFT FUSELAGES

Title (de)
HOCHFESTES ALUMINIUM-KUPFER-LITHIUM-BLECH FÜR FLUGZEUGRÜMPFE

Title (fr)
TOLE EN ALUMINIUM-CUIVRE-LITHIUM A HAUTE TENACITE POUR FUSELAGE D'AVION

Publication
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Application
EP 06764718 A 20060602

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- US 68744405 P 20050606
- FR 0508374 A 20050805

Abstract (en)
[origin: WO2006131627A1] The invention relates to an aluminum-based alloy having a low density that is useful in an aircraft structure for fuselage sheet metal applications that have a high mechanical resistance, a high level of strength and a high resistance to corrosion, containing in % by weight, 2.7 to 3.4 of Cu, 0.8 to 1.4 of Li, 0.1 to 0.8 of Ag, 0.2 to 0.6 of Mg and an element such as Zr, Mn, Cr, Sc, Hf, Ti or a combination thereof, of which the quantity, in % by weight, is 0.05 to 0.13 for Zr, 0.05 to 0.8 for Mn, 0.05 to 0.3 for Cr and Sc, 0.05 to 0.5 for Hf and 0.05 to 0.15 for Ti. The quantity of Cu and of Li is determined according to the formula $Cu (\% \text{ by weight}) + \frac{5}{3} Li (\% \text{ by weight}) < 5.2$.

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C22C 21/12 (2006.01); **C22F 1/057** (2006.01)

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Cited by
WO2014162069A1; FR3004196A1; FR3004197A1; WO2011141647A2; WO2014162068A1; WO2019234326A1; FR3082210A1; WO2014167191A1; US10400313B2; WO2016051099A1; WO2021111069A1; FR3104172A1; WO2013054013A1; WO2023144492A1; FR3132306A1; WO2015082779A2; US10724127B2; US10836464B2; US12116122B2

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