

Title (en)

ISOTROPIC SHEETS OF ALUMINIUM-COPPER-LITHIUM ALLOYS FOR THE FABRICATION OF FUSELAGES OF AIRCRAFTS AND METHOD OF MANUFACTURING SAME

Title (de)

ISOTROPISCHE BLECHE AUS ALUMINIUM-LITHIUM-KUPFER LEGIERUNG FÜR DIE HERSTELLUNG VON FLUGZEUGRÜMPFEN UND HERSTELLUNGSVERFAHREN DAVON

Title (fr)

TÔLES ISOTROPES EN ALLIAGE D'ALUMINIUM-CUIVRE-LITHIUM POUR LA FABRICATION DE FUSELAGES D'AVION ET PROCÉDÉ DE FABRICATION DE CELLE-CI

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2016051099A1] The invention concerns a sheet 0.5 to 9 mm thick, having an essentially recrystallised granular structure made from an aluminium alloy comprising 2.8 to 3.2 % by weight of Cu, 0.5 to 0.8 % by weight of Li, 0.1 to 0.3 % by weight of Ag, 0.2 to 0.7 % by weight of Mg, 0.2 to 0.6 % by weight of Mn, 0.01 to 0.15 % by weight of Ti, a quantity of Zn of less than 0.2 % by weight, a quantity of Fe and of Si of less than 0.1 % each by weight, and inevitable impurities in a content less than or equal to 0.05% each by weight and 0.15% in total by weight, said sheet being obtained by a method comprising pouring, soaking, hot rolling and optionally cold rolling, solution annealing, quenching and tempering. The sheets according to the invention are particularly advantageous for producing aircraft fuselage panels.

IPC 8 full level

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