

Title (en)

THIN SHEETS MADE OF ALUMINIUM-COPPER-LITHIUM ALLOY FOR AIRCRAFT FUSELAGE MANUFACTURE

Title (de)

DÜNNSCHICHTEN AUS ALUMINIUM-KUPFER-LITHIUM-LEGIERUNG FÜR DIE HERSTELLUNG EINES FLUGZEUGRUMPFES

Title (fr)

TOLES MINCES EN ALLIAGE D'ALUMINIUM-CUIVRE-LITHIUM POUR LA FABRICATION DE FUSELAGES D'AVION

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Application

EP 19740635 A 20190529

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Abstract (en)

[origin: WO2019234326A1] The invention concerns a method for manufacturing a thin sheet made of aluminium-based alloy comprising, in per cent by weight, 2.3 to 2.7% Cu, 1.3 to 1.6% Li, 0.2 to 0.5% Mg, 0.1 to 0.5% Mn, 0.01 to 0.15% Ti, a quantity of Zn less than 0.3, a quantity of Fe and of Si less than or equal to 0.1% each, and unavoidable impurities at a content less than or equal to 0.05% by weight each and 0.15% by weight in total, wherein, in particular, the hot-rolling input temperature is between 400 °C and 445 °C and the hot-rolling output temperature is less than 300 °C. The sheets according to the invention have advantageous mechanical properties and are used, in particular, for the manufacture of aircraft fuselage panels.

IPC 8 full level

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CPC (source: EP US)

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Citation (search report)

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