

Title (en)

ALUMINIUM-COPPER-LITHIUM ALLOY HAVING IMPROVED COMPRESSIVE STRENGTH AND IMPROVED TOUGHNESS

Title (de)

ALUMINIUM-KUPFER-LITHIUM-LEGIERUNG MIT VERBESSERTER KOMPRESSIIONSFESTIGKEIT UND ERHÖHTER BESTÄNDIGKEIT

Title (fr)

ALLIAGE ALUMINIUM CUIVRE LITHIUM A RESISTANCE EN COMPRESSION ET TENACITE AMELIOREES

Publication

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Application

EP 19726060 A 20190424

Priority

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Abstract (en)

[origin: WO2019211547A1] The invention relates to a product based on an aluminium alloy comprising, as percentages by weight, 4.0 to 4.6% by weight of Cu, 0.7 to 1.2% by weight of Li, 0.5 to 0.65% by weight of Mg, 0.10 to 0.20% by weight of Zr, 0.15 to 0.30% by weight of Ag, 0.25 to 0.45% by weight of Zn, 0.05 to 0.35% by weight of Mn, at most 0.20% by weight of Fe + Si, at least one element selected from Cr, Sc, Hf, V and Ti, the amount of said element, if selected, being from 0.05 to 0.3% by weight for Cr and for Sc, 0.05 to 0.5% by weight for Hf and for V and 0.01 to 0.15% by weight for Ti, the other elements being at most 0.05% by weight each and 0.15% by weight in total, the remainder being aluminium. The invention also relates to a method for obtaining such a product and to the use thereof as an aircraft structural element.

IPC 8 full level

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CPC (source: EP US)

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Citation (opposition)

Opponent : Arconic Corporation

- US 2012152415 A1 20120621 - DANIELOU ARMELLE [FR], et al
- CN 103509984 A 20140115 - UNIV CENTRAL SOUTH, et al
- WO 2013169901 A1 20131114 - ALCOA INC [US]

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DOCDB simple family (publication)

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