

Title (en)

ALUMINIUM-COPPER-LITHIUM ALLOY WITH IMPROVED MECHANICAL RESISTANCE AND TOUGHNESS

Title (de)

ALUMINIUM-KUPFER-LITHIUM-LEGIERUNG MIT VERBESSERTEN MECHANISCHE BESTÄNDIGKEIT UND ZÄHIGKEIT

Title (fr)

ALLIAGE ALUMINIUM CUIVRE LITHIUM A RESISTANCE MECANIQUE ET TENACITE AMELIOREES

Publication

**EP 2449142 B1 20170503 (FR)**

Application

**EP 10734173 A 20100622**

Priority

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- US 22024909 P 20090625

Abstract (en)

[origin: WO2010149873A1] The invention relates to a wrought product such as an extruded, rolled and/or forged product, made of an alloy based on aluminium comprising, in % by weight, Cu: 3.0 - 3.9; Li: 0.8 - 1.3; Mg: 0.6 - 1.0; Zr: 0.05 - 0.18; Ag: 0.0 - 0.5; Mn: 0.0 - 0.5; Fe + Si = 0.20; Zn = 0.15; at least one element from Ti: 0.01-0.15; Sc: 0.05 - 0.3; Cr: 0.05 - 0.3; Hf: 0.05 - 0.5; other elements = 0.05 each and = 0.15 in total, the remainder being aluminium. The invention also relates to the process for manufacturing this product. The products according to the invention are particularly useful for producing thick products made of aluminium intended to produce structural components for the aeronautical industry.

IPC 8 full level

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Citation (opposition)

Opponent : Arconic Inc

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