

Title (en)

Aircraft body member, more particularly for supersonic aircraft, made from a long-living, damage tolerant aluminium alloy with good stress corrosion resistance

Title (de)

Zellenbauteil, insbesondere für Überschallflugzeuge, hergestellt aus einer Aluminiumlegierung mit hoher Lebensdauer, guter Schadenstoleranz und hoher Spannungskorrosionsbeständigkeit

Title (fr)

Élément de structure d'aéronef, et notamment d'avion supersonique, en alliage d'aluminium présentant une longue durée de vie, une bonne tolérance aux dommages et une bonne résistance à la corrosion sous contrainte

Publication

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Application

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Priority

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Abstract (en)

[origin: EP0756016A1] An aircraft component is made of an Al alloy containing 2.00-3.00 wt.% Cu, 1.40-1.90 wt.% Mg, 0.20-0.70 wt.% Mn, 0-0.30 wt.% Fe, 0-0.30 wt.% Ni, 0-0.15 wt.% Ti, at least 0.05 wt.% Si and 0-1.10% Ag, where $0.40 \leq \text{Si} + 0.4 \text{ Ag} \leq 0.60$ and $\text{Si} + \text{Ag} + 1.1 \text{ Mg} \leq 2.6$. One alloy exemplified contains 0.40-0.60% Si and no Ag, and another contains 0.20-0.40% Si and 0.40-0.60% Ag.

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