

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

**EP 0756016 B1 20000524 (FR)**

Application

**EP 96401680 A 19960726**

Priority

FR 9509246 A 19950728

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.

IPC 1-7

**C22C 21/16**

IPC 8 full level

**C22C 21/12** (2006.01); **C22C 21/16** (2006.01)

CPC (source: EP)

**C22C 21/16** (2013.01)

Designated contracting state (EPC)

DE ES GB IT

DOCDB simple family (publication)

**EP 0756016 A1 19970129**; **EP 0756016 B1 20000524**; AU 6075496 A 19970206; AU 703162 B2 19990318; CA 2182058 A1 19970129; CA 2182058 C 20081209; DE 69608506 D1 20000629; DE 69608506 T2 20010118; ES 2148699 T3 20001016; FR 2737224 A1 19970131; FR 2737224 B1 19971017; JP 3791972 B2 20060628; JP H09104941 A 19970422

DOCDB simple family (application)

**EP 96401680 A 19960726**; AU 6075496 A 19960726; CA 2182058 A 19960725; DE 69608506 T 19960726; ES 96401680 T 19960726; FR 9509246 A 19950728; JP 19814996 A 19960726