

Title (en)

PROCESS OD DESENSITIZATION TO EXFOLIATING CORROSION OF LITHIUM-CONTAINING ALUMINIUM ALLOYS, RESULTING SIMULTANEOUSLY IN A HIGH MECHANICAL RESISTANCE AND IN GOOD DAMAGE LIMITATION

Publication

EP 0227563 B1 19900418 (FR)

Application

EP 86420293 A 19861126

Priority

FR 8518208 A 19851128

Abstract (en)

[origin: EP0227563A1] 1. A process for the heat treatment of Al alloys containing Li to improve their resistance to exfoliation corrosion while retaining a high level of mechanical strength and good resistance to damage characterised in that the final ageing operation is carried out in the following range of temperatures T (in degree C) and times t (in hours) : $t \geq 24 \times 5 \exp((150-T)/30)$ $t \leq 80 \times 5 \exp((150-T)/30)$ with : T ≤ 160 degrees C for Mg $\geq 2\%$ T ≤ 160 degrees C-5 (2-% Mg) degrees C for 1 \leq Mg $\leq 2\%$ T ≤ 155 degrees C for Mg $\leq 1\%$.

IPC 1-7

C22F 1/047; **C22F 1/057**

IPC 8 full level

C22F 1/00 (2006.01); **C22F 1/04** (2006.01); **C22F 1/047** (2006.01); **C22F 1/057** (2006.01)

CPC (source: EP)

C22F 1/047 (2013.01); **C22F 1/057** (2013.01)

Citation (examination)

EP 0214381 A1 19870318 - BOEING CO [US]

Cited by

US5198045A; US5240521A; US5133931A; US5211910A; GB2262744A; GB2262744B; EP0571542A4; FR2675816A1; FR2945464A1; CN102421563A; US5462712A; US5259897A; WO2010130887A1; US8118950B2; US9587294B2; US8469255B2; US9555504B2

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