

Title (en)

ALUMINIUM ALLOYS WITH A HIGH LITHIUM AND SILICON CONTENT, AND PROCESS FOR THEIR MANUFACTURE

Publication

EP 0208631 B1 19890802 (FR)

Application

EP 86420166 A 19860625

Priority

FR 8510375 A 19850628

Abstract (en)

[origin: ES2000175A6] The invention concerns Al-base alloys with substantial proportions of Li and Si, containing, by weight: from 3.6 to 8% Li from 5 to 14% Si from 0 to 1% of each of the following optional elements: Fe, Co, Ni, Cr, Mn, Zr, V, Ti, Nb, Mo, O₂, Sc, and from 0 to 2% of each of the optional elements Cu, Mg and/or Zn, the total amount of the optional elements being less than 5%, and the balance being Al and impurities, each impurity $\leq 0.05\%$, with total impurities $\leq 0.15\%$. The products are obtained by rapid solidification processes and contain from 15 to 60% by volume of phase T (Al, Si, Li), in the form of particles of from 0.01 to 10 μm .

IPC 1-7

C22C 21/00; C22C 21/04; C22F 1/043

IPC 8 full level

C22C 21/02 (2006.01); **C22C 1/04** (2006.01); **C22C 21/00** (2006.01); **C22C 21/04** (2006.01); **C22F 1/00** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP US)

C22C 1/0416 (2013.01 - EP US); **C22C 21/00** (2013.01 - EP US); **C22C 21/04** (2013.01 - EP US); **Y10T 29/49988** (2015.01 - EP US)

Cited by

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Designated contracting state (EPC)

AT BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)

EP 0208631 A1 19870114; EP 0208631 B1 19890802; AT E45189 T1 19890815; BR 8602980 A 19870217; CA 1274107 A 19900918; DE 3664789 D1 19890907; ES 2000175 A6 19880101; FR 2584095 A1 19870102; IL 79198 A0 19860930; JP H0328500 B2 19910419; JP S627828 A 19870114; US 4804423 A 19890214

DOCDB simple family (application)

EP 86420166 A 19860625; AT 86420166 T 19860625; BR 8602980 A 19860627; CA 512207 A 19860623; DE 3664789 T 19860625; ES 8600019 A 19860627; FR 8510375 A 19850628; IL 7919886 A 19860623; JP 14801986 A 19860624; US 87934786 A 19860627