

Title (en)

Welded structures with improved mechanical properties made of AlMg alloys

Title (de)

Geschweisste Strukturen mit verbesserten mechanischen Eigenschaften aus AlMg-Legierungen

Title (fr)

Constructions soudées à caractéristiques mécaniques améliorées en alliage AlMg

Publication

EP 0769564 B1 20011212 (FR)

Application

EP 96420311 A 19961015

Priority

FR 9512466 A 19951018

Abstract (en)

[origin: EP0769564A1] AlMg alloy consists of in wt. %: 4.2-4.8 Mg; less than 0.5 Mn; less than 0.4 Zn; less than 0.45 Fe; less than 0.3 Si; and possibly less than 0.15 Cr; less than 0.25 Cu; less than 0.2 Ti; less than 0.2 Zr; other elements less than 0.05 each and less than 0.15 in total; balance Al with Mn+Zn less than 0.7.

IPC 1-7

C22C 21/06; B65D 88/12; B23K 101/04; B23K 103/10

IPC 8 full level

C22C 21/06 (2006.01); **C22F 1/00** (2006.01); **C22F 1/047** (2006.01)

CPC (source: EP KR)

C22C 21/06 (2013.01 - EP KR); **C22F 1/047** (2013.01 - EP)

Citation (examination)

- JP S6220785 A 19870129 - YAMAHA MOTOR CO LTD
- ASM Specialty Handbook, 1994, Edit. J.R. Davis, Davis & Associates, pp 43, 44, 74, 75, 376, 678
- R. Deschamps "Contribution à l'étude de la vitesse de fissuration par fatigue à basse température dans l'alliage d'aluminium 5083", Métaux-Corrosion-Industrie, 52e année, vol. 21, juillet-août 1976, pp 278-291

Cited by

DE10231437B4; RU2685295C1; FR2828499A1; AU2002327921B2; FR2828498A1; GR20020100348A; US7211161B2; US11352686B2; WO03016580A1; WO03014405A1; WO2016207274A1; US7727346B2; EP2888383B1; EP0823489B2

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EP 96420311 A 19961015; DE 01113630 T 19961015; DE 69617872 T 19961015; DE 96420311 T 19961015; EP 01113630 A 19961015; FR 9512466 A 19951018; JP 27642596 A 19961018; KR 19960046645 A 19961018