

Title (en)

AN AL-ZN-MG-AG HIGH-STRENGTH ALLOY FOR AEROSPACE AND AUTOMOTIVE CASTINGS

Title (de)

HOCHFESTE AL-ZN-MG-AG-LEGIERUNG FÜR FLUGZEUG- UND AUTOMOBIL-GEHÄUSE

Title (fr)

ALLIAGE HAUTE RESISTANCE AL-ZN-MG-AG POUR COULAGE DE PIECES DESTINEES A L'INDUSTRIE AEROSPATIALE ET AUTOMOBILE

Publication

EP 1885897 A4 20080618 (EN)

Application

EP 06771066 A 20060524

Priority

- US 2006020081 W 20060524
- US 68451305 P 20050525

Abstract (en)

[origin: WO2006127811A2] An aluminum casting alloy comprises, in weight percent: about 4-5% Zn; about 1-3% Mg; about 0-1% Cu; less than about 0.3% Si; less than about 0.12% Fe; less than about 0.5% Mn; about 0.01-0.05 wt% B; less than about 0.15% Ti; about 0.05-0.2% Zr; about 0.1-0.5% Ag; no more than about 0.05% each miscellaneous element or impurity; no more than about 0.15% total miscellaneous elements or impurities; balance aluminum. The alloy may advantageously be used in either T5 or T6 tempers.

IPC 8 full level

C22C 21/10 (2006.01)

CPC (source: EP US)

C22C 21/10 (2013.01 - EP US); **C22F 1/053** (2013.01 - EP US)

Citation (search report)

- [X] JP H03122248 A 19910524 - FURUKAWA ALUMINIUM
- [X] JP H03122247 A 19910524 - FURUKAWA ALUMINIUM
- [X] JP H03122246 A 19910524 - FURUKAWA ALUMINIUM
- [X] JP S60234955 A 19851121 - KOBE STEEL LTD & DATABASE WPI Derwent World Patents Index; AN 1986-010623, XP002479094
- [A] FR 2078470 A5 19711105 - ALCAN RES & DEV
- [A] GB 1154013 A 19690604 - COMMW OF AUSTRALIA [AU]
- [A] WO 0026020 A1 20000511 - HOOGO VENS ALU WALZPROD GMBH [DE], et al
- See references of WO 2006127811A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

US 2006020081 W 20060524; CA 2609534 A 20060524; EP 06771066 A 20060524; JP 2008513670 A 20060524; US 43939006 A 20060523