

Title (en)

Production method of an aluminium alloy of AlMgSi type with Sn and Mn

Title (de)

Verfahren zur Herstellung einer Aluminiumknetlegierung des Typs AlMgSi mit Sn und Mn

Title (fr)

Méthode de production d'un alliage d'aluminium du type AlMgSi avec Sn et Mn

Publication

EP 1098009 B2 20080924 (DE)

Application

EP 00121632 A 20001004

Priority

DE 19953212 A 19991105

Abstract (en)

[origin: EP1098009A2] Aluminum wrought alloy of the AlMgSi type contains alloying additions of (in wt.%): 0.6-2.0 magnesium, 0.6-3.0 silicon, 0.6-1.5 tin, 0.4-1.0 manganese, maximum 0.25 chromium and titanium, and impurities containing maximum 0.4 iron, maximum 0.1 copper and maximum 0.2 zinc. An Independent claim is included for a process for the production of a continuously cast object made of the aluminum wrought alloy of the AlMgSi type comprising solution annealing during extrusion, quenching the extruded object and hardening.

IPC 8 full level

C22C 21/08 (2006.01); **C22F 1/05** (2006.01); **C22C 21/00** (2006.01); **C22C 21/02** (2006.01); **C22C 21/06** (2006.01); **C22F 1/00** (2006.01)

CPC (source: EP KR)

C22C 21/00 (2013.01 - EP); **C22C 21/02** (2013.01 - EP KR); **C22C 21/08** (2013.01 - EP)

Citation (opposition)

Opponent :

- WO 9608586 A1 19960321 - ALUMINUM CO OF AMERICA [US], et al
- WO 0037697 A1 20000629 - IMPOL IND METALNIH POLIZDELKOV [SI], et al
- Auftragbestätigung von Niagara Leadfree vom 26/08/96, Order-Nr. 19669-03, (Position 3: Alu Rod 6012 (Sn instead of Pb) T9 ASTM B211) und Hersteller-Zertifikat (mill certificate) für Nr. 19669-03, erstellt am 20.08.1996
- "Research Disclosure", Nummer 39777, Mai 1997, S. 348 und Index, veröffentlicht von Hoogovens Aluminium NV
- Hatch J. E., "ALUMINUM, Properties and Physical Metallurgy", American Society for Metals, 5. Auflage, Januar 1993, S. 137

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CN103805817A

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1098009 A2 20010509; **EP 1098009 A3 20010530**; **EP 1098009 B1 20020703**; **EP 1098009 B2 20080924**; AT E220122 T1 20020715; AU 6966400 A 20010510; DE 19953212 A1 20010531; DE 50000260 D1 20020808; ES 2178998 T3 20030116; JP 2001181770 A 20010703; KR 100512154 B1 20050905; KR 20010070185 A 20010725; PT 1098009 E 20021129

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