

Title (en)

Master alloy for grain refinement of aluminium alloys

Title (de)

Vorlegierung zur Kornfeinung von Aluminium-Legierungen

Title (fr)

Alliage-mère pour l'affinage de grain d'alliages en aluminium

Publication

**EP 1029934 A1 20000823 (EN)**

Application

**EP 00102953 A 20000214**

Priority

NO 990813 A 19990219

Abstract (en)

A master alloy for grain refinement of aluminium alloys contains nucleating additives of Ti and B, in addition to unavoidable impurities. The content of Ti is 0.15 - 1.45 wt%, the content of B is 0.05 - 0.9 wt% and the Ti/B ratio is between 1.7 and 2.7. <IMAGE>

IPC 1-7

**C22C 1/03**

IPC 8 full level

**C22C 1/03** (2006.01); **C22C 21/00** (2006.01)

CPC (source: EP)

**C22C 1/03** (2013.01)

Citation (search report)

- [A] EP 0601972 A1 19940615 - RHEINFELDEN ALUMINIUM GMBH [DE]
- [A] GB 1333957 A 19731017 - GRAENGES ALUMINIUM AB
- [X] DATABASE WPI Section Ch Week 199248, Derwent World Patents Index; Class M26, AN 1992-396403, XP002139115
- [X] LARNBERG ET AL: "Grain Refinement of Aluminium Part 1", METALS TECHNOLOGY, vol. 9, no. 1, 1982, London, pages 1 - 6, XP000910316
- [PX] T.SAGSTAD ET AL: "Hydloy-a new alloy and method for grain refining aluminium, Proc Light Metals 1999, San Diago, 28 Feb - 4 Mar 1999", THE MINERALS, METALS & MATERIALS SOCIETY, WARRANDALE, PA, XP000910446
- [PX] CHEMICAL ABSTRACTS, vol. 131, no. 10, 6 September 1999, Columbus, Ohio, US; abstract no. 133024, SPITTLE, J. A. ET AL: "The grain refinement of Al7Si alloys with boron containing refiners" XP002139114 & LIGHT MET. (WARRENDAL, PA.) (1999) 673-677, 28 February 1999 (1999-02-28) - 4 March 1999 (1999-03-04)

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