



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) **EP 1 526 188 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
14.09.2005 Bulletin 2005/37

(51) Int Cl.7: **C22C 23/02, C22F 1/06**

(43) Date of publication A2:
27.04.2005 Bulletin 2005/17

(21) Application number: **04018625.6**

(22) Date of filing: **05.08.2004**

(84) Designated Contracting States:
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR
HU IE IT LI LU MC NL PL PT RO SE SI SK TR**
Designated Extension States:
AL HR LT LV MK

(71) Applicant: **AISIN SEIKI KABUSHIKI KAISHA**
Aichi-ken 448-8650 (JP)

(72) Inventor: **Saikawa, Seiji, Aisin Seiki K.K.**
Kariya-shi Aichi-ken, 448-8650 (JP)

(30) Priority: **06.08.2003 JP 2003288229**
19.03.2004 JP 2004080729

(74) Representative: **TBK-Patent**
Bavariaring 4-6
80336 München (DE)

(54) **Heat resistant magnesium alloy for casting**

(57) A heat resistant magnesium alloy for casting includes 6-12% by weight of aluminum, 0.05-4% by weight of calcium, 0.5-4% by weight of rare earth elements, 0.05-0.50% by weight of manganese, 0.1-14% by weight of tin, balance magnesium and inevitable impurities.

EP 1 526 188 A3



European Patent
Office

EUROPEAN SEARCH REPORT

Application Number
EP 04 01 8625

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
Y	EP 0 791 662 A (HONDA GIKEN KOGYO KABUSHIKI KAISHA) 27 August 1997 (1997-08-27) * abstract; tables 1,2 * * page 1, lines 3-5 * * page 1, line 33 - line 35 * -----	1-4,6,7	C22C23/02 C22F1/06
Y	EP 1 108 799 A (HITACHI, LTD) 20 June 2001 (2001-06-20) * abstract; table 1 * * paragraphs [0001], [0010], [0029] * * claims 1,5,9,10 * -----	1-4,6,7	
A	ASM INTERNATIONAL: "ASM Speciality Handbook - Magnesium and Magnesium alloys" May 1999 (1999-05), ASM INTERNATIONAL, USA, XP002334718 ISBN: 0-87170-657-1 * page 15 * -----	5	
A	EP 1 127 950 A (MITSUBISHI ALUMINUM CO.,LTD) 29 August 2001 (2001-08-29) * abstract; table 1 * -----	1-7	TECHNICAL FIELDS SEARCHED (Int.Cl.7) C22C C22F
The present search report has been drawn up for all claims			
Place of search Munich		Date of completion of the search 6 July 2005	Examiner von Zitzewitz, A
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

3
EPO FORM 1503 03/82 (P04C01)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 04 01 8625

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

06-07-2005

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 0791662	A	27-08-1997	JP	3229954 B2	19-11-2001
			JP	9291332 A	11-11-1997
			DE	69704801 D1	21-06-2001
			DE	69704801 T2	30-08-2001
			EP	0791662 A1	27-08-1997
			US	5811058 A	22-09-1998

EP 1108799	A	20-06-2001	JP	3603706 B2	22-12-2004
			JP	2001158930 A	12-06-2001
			DE	60005283 D1	23-10-2003
			DE	60005283 T2	24-06-2004
			EP	1108799 A2	20-06-2001
			TW	573018 B	21-01-2004
			US	2001055539 A1	27-12-2001
			US	2004154703 A1	12-08-2004

EP 1127950	A	29-08-2001	AT	243265 T	15-07-2003
			AU	753538 B2	24-10-2002
			AU	2314501 A	30-08-2001
			CA	2337630 A1	24-08-2001
			DE	60100370 D1	24-07-2003
			DE	60100370 T2	29-04-2004
			EP	1127950 A1	29-08-2001
			JP	2001316752 A	16-11-2001
			NO	20010902 A	27-08-2001
			US	2001023720 A1	27-09-2001
