

Title (en)

ALUMINUM ALLOY FOR DIE CASTING, AND ALUMINUM ALLOY DIE-CAST PRODUCT USING SAME

Title (de)

ALUMINIUMLEGIERUNG ZUM DRUCKGIESSEN UND DRUCKGUSSPRODUKT AUS ALUMINIUMLEGIERUNG DAMIT

Title (fr)

ALLIAGE D'ALUMINIUM POUR LA COULÉE SOUS PRESSION ET PRODUIT EN ALLIAGE D'ALUMINIUM COULÉ SOUS PRESSION L'UTILISANT

Publication

**EP 3196323 A4 20170809 (EN)**

Application

**EP 14904322 A 20141215**

Priority

- JP 2014216640 A 20141023
- JP 2014006238 W 20141215

Abstract (en)

[origin: EP3196323A1] Provided are: an aluminum alloy for die casting, having castability and mechanical properties equivalent to those of ADC12 and corrosion resistance equivalent to that of ADC6; and an aluminum alloy die cast obtained through die-casting the alloy. Specifically, the present invention is directed to an aluminum alloy for die casting that contains: Cu by not more than 0.10 wt%; Si by 12.0 to 15.0 wt%; Mg by not more than 1.00 wt%; Fe by 0.05 to 1.00 wt%; Cr by 0.10 to 0.50 wt%; and a remaining portion thereof being Al and unavoidable impurities.

IPC 8 full level

**C22C 21/02** (2006.01); **C22C 21/04** (2006.01)

CPC (source: EP KR US)

**B22D 17/00** (2013.01 - EP US); **B22D 21/007** (2013.01 - EP US); **C22C 21/02** (2013.01 - EP KR US); **C22C 21/04** (2013.01 - EP)

Citation (search report)

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- [Y] HENGCHENG LIAO ET AL: "Effect of Al-5Ti-1B on the microstructure of near-eutectic Al-13.0% Si alloys modified with Sr", JOURNAL OF MATERIALS SCIENCE, vol. 37, no. 16, 1 January 2002 (2002-01-01), Dordrecht, pages 3489 - 3495, XP055387852, ISSN: 0022-2461, DOI: 10.1023/A:1016519307997
- [Y] ASENSIO-LOZANO J ET AL: "Microstructure-properties correlation of pressure die cast eutectic aluminum-silicon alloys for escalator steps (Part I)", MATERIALS CHARACTERIZATION, ELSEVIER, NEW YORK, NY, US, vol. 56, no. 3, 1 April 2006 (2006-04-01), pages 169 - 177, XP027973839, ISSN: 1044-5803, [retrieved on 20060401]
- See references of WO 2016063320A1

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Designated extension state (EPC)

BA ME

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DOCDB simple family (application)

**EP 14904322 A 20141215**; CN 201480082837 A 20141215; JP 2014006238 W 20141215; JP 2015558290 A 20141215; KR 20177011719 A 20141215; MX 2017004376 A 20141215; MY PI2017701407 A 20141215; PL 14904322 T 20141215; US 201415520650 A 20141215