

Title (en)
ALUMINUM ALLOY FOR CASTING-FORGING, ALUMINUM CAST/FORGED ARTICLE, AND METHOD FORMANUFACTURE THEREOF

Title (de)
ALUMINIUMGUSSLEGIERUNG ZUM SCHMIEDEN UND ALUMINIUMGUSS-SCHMIEDEPRODUKT SOWIE HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ALLIAGE EN ALUMINIUM POUR MOULAGE-FORGEAGE, ARTICLE MOULE/FORGE EN ALUMINIUM ET PROCEDE DE FABRICATION DE CET ARTICLE

Publication
EP 1566458 A4 20060426 (EN)

Application
EP 03748621 A 20030930

Priority
• JP 0312514 W 20030930
• JP 2002288455 A 20021001

Abstract (en)
[origin: US2004151615A1] There is disclosed a cast-forged product of an aluminum alloy consisting essentially of: 0.6 to 1.8 wt % of silicon; 0.6 to 1.8 wt % of magnesium; 0.8 wt % or less of copper; 0.2 to 1.0 wt % of manganese; 0.25 wt % or less of chromium; 0.0 to 0.15 wt % of titanium; and unavoidably contained impurities. When the product is used as various parts for automobiles formed of aluminum, such as suspension parts, frames, and parts for engines, the product is more superior in mechanical properties such as a tensile strength, proof stress, and elongation, and can be manufactured with a low cost.

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CPC (source: EP US)
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Citation (search report)
• [A] SPIEKERMANN P: "LEGIERUNGEN - EIN BESONDERES PATENTRECHTLICHES PROBLEM? - LEGIERUNGSPRUEFUNG IM EUROPAEISCHEN PATENTAMT -", MITTEILUNGEN DER DEUTSCHEN PATENTANWAELTE, HEYMANN, KOLN., DE, 1993, pages 178 - 190, XP000961882, ISSN: 0026-6884
• [XD] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 05 31 May 1996 (1996-05-31)
• [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 04 30 April 1999 (1999-04-30)
• [X] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 07 31 July 1997 (1997-07-31)
• [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 549 (C - 662) 7 December 1989 (1989-12-07)
• See references of WO 2004031424A1

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US 2004151615 A1 20040805; AU 2003268697 A1 20040423; AU 2003268697 A8 20040423; CN 1497052 A 20040519; EP 1566458 A1 20050824; EP 1566458 A4 20060426; JP WO2004031424 A1 20060202; PL 374938 A1 20051114; US 2005279429 A1 20051222; WO 2004031424 A1 20040415

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