

Title (en)
Aluminium alloy

Title (de)
Aluminiumlegierung

Title (fr)
Alliage d'aluminium

Publication
EP 1882754 A1 20080130 (EN)

Application
EP 07014135 A 20070719

Priority
• EP 06015671 A 20060727
• EP 07014135 A 20070719

Abstract (en)
An Aluminium alloy containing silver and strontium in suitable amounts with improved mechanical and technological properties suitable for vehicular suspension parts. The product having an enhanced tensile strength, yield strength, and elongation percentage, and also suitable technological properties such as corrosion resistance and low hot cracking. A process for the preparation of the aluminium alloy and the vehicular suspension components made from the aluminium alloy described herein are also described.

IPC 8 full level
C22C 21/02 (2006.01); **C22C 21/04** (2006.01); **C22C 1/02** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP)
C22C 21/02 (2013.01); **C22F 1/043** (2013.01)

Citation (applicant)
• US 6364970 B1 20020402 - HIELSCHER ULRICH [DE], et al
• CN 1693508 A 20051109 - UNIV ZHENGZHOU [CN]
• EP 1657319 A1 20060517 - BAYERISCHE MOTOREN WERKE AG [DE]
• "Hüttenaluminium Gusslegierungen", 1994, ALUMINIUM RHEINFELDEN GMBH
• VASILAKOS A.N.: "Thermodynamic analysis and mechanical properties of cast aluminium alloy A357 with Cu, Ag and Sm additions", METALL, HUETHIG, HEIDELBERG, DE, vol. 50, no. 9, 1996, pages 556 - 560

Citation (search report)
• [Y] EP 1657319 A1 20060517 - BAYERISCHE MOTOREN WERKE AG [DE]
• [Y] CN 1693508 A 20051109 - UNIV ZHENGZHOU [CN]
• [A] WO 9610099 A1 19960404 - ASHURST TECHNOLOGY CORP IRELAN [IE]
• [A] EP 1683881 A1 20060726 - BRUNSWICK CORP [US]
• [Y] DIVERSE: "Hüttenaluminium Gusslegierungen", 1994, ALUMINIUM RHEINFELDEN GMBH, XP009082093
• [Y] VASILAKOS A N ET AL: "THERMODYNAMIC ANALYSIS AND MECHANICAL PROPERTIES OF CAST ALUMINUM ALLOY A357 WITH CU, AG AND SM ADDITIONS", METALL, HUETHIG, HEIDELBERG, DE, vol. 50, no. 9, 1996, pages 556 - 560, XP009057849, ISSN: 0026-0746

Cited by
CN105441729A; CN115198150A; CN110527873A; CN105506397A; CN115261685A; AT14019U1; CN109136696A; CN111455231A; CN117604341A; WO2013034001A1

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