

Title (en)
ALUMINUM ALLOY EXCELLENT IN MACHINABILITY, AND ALUMINUM ALLOY MATERIAL AND METHOD FOR PRODUCTION THEREOF

Title (de)
ALUMINIUMLEGIERUNG MIT HERVORRAGENDER ZERSPANBARKEIT UND ALUMINIUMLEGIERUNGSMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
ALLIAGE D'ALUMINIUM PRESENTANT UNE EXCELLENTE USINABILITE, ET MATERIAU D'ALLIAGE D'ALUMINIUM ET SON PROCEDE DE PRODUCTION

Publication
EP 1413636 A4 20051116 (EN)

Application
EP 02755647 A 20020725

Priority

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- JP 2001224661 A 20010725
- JP 2002148340 A 20020522
- US 31136301 P 20010813

Abstract (en)
[origin: EP1413636A1] First aluminum alloy which comprises 0.3 to 6 mass% of Mg, 0.3 to 10 mass% of Si, 0.05 to 1 mass% of Zn, 0.001 to 0.3 mass% of Sr and the balanced amount of Al and impurities; a second aluminum alloy which comprises the elements contained in the first alloy in amounts described above and further comprise one or more selected from among Cu, Fe, Mn, Cr, Zr, Ti, Na and Ca; A third aluminum alloy comprising 0.1 to 6 mass% of Mg, 0.3 to 12.5 mass% of Si, 0.01 mass% or more and less than 1 mass% of Cu, 0.01 to 3 mass% of Zn, 0.001 to 0.5 mass% of Sr and the balanced amount of Al and impurities; and a forth aluminum alloy which comprises the elements contained in the third alloy in amounts described above and further comprises one or more selected from among Ti, B, C, Fe, Cr, Mn, Zr, V, Sc, Ni, Na, Sb, Ca, Sn, Bi, and In.

IPC 1-7
C22C 21/02; **C22F 1/043**

IPC 8 full level
C22C 21/00 (2006.01); **C22C 21/02** (2006.01); **C22C 21/04** (2006.01); **C22C 21/08** (2006.01); **C22F 1/04** (2006.01); **C22F 1/043** (2006.01); **C22F 1/047** (2006.01)

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Citation (search report)

- [X] US 5123973 A 19920623 - SCOTT GERALD D [US], et al
- [A] US 5837070 A 19981117 - SAINFORT PIERRE [FR], et al
- See references of WO 03010349A1

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