

Title (en)

ALLOY HAVING FINE-SCALE EUTECTIC, IN PARTICULAR NANO-EUTECTIC, STRUCTURE AND PRODUCTION OF SUCH AN ALLOY

Title (de)

LEGIERUNG MIT FEINSKALIGEM EUTEKTISCHEN, INSBESONDERE NANO-EUTEKTISCHEM, GEFÜGE UND HERSTELLUNG DERSELBEN

Title (fr)

ALLIAGE COMPRENANT DES STRUCTURES EUTECTIQUES FINES, EN PARTICULIER NANO-EUTECTIQUES, ET PRODUCTION DE CELUI-CI

Publication

EP 3997251 A1 20220518 (DE)

Application

EP 20735621 A 20200707

Priority

- EP 19184999 A 20190708
- EP 2020058280 W 20200325
- EP 2020069131 W 20200707

Abstract (en)

[origin: CA3137604A1] The invention relates to a magnesium alloy. In order to achieve a magnesium alloy having both a high strength and a high deformability, a magnesium alloy is provided according to the invention, which comprises (in at.%) 15.0 % to 70.0 % of lithium, more than 0.0 % of aluminum, the remainder being magnesium and production-related impurities, wherein the ratio aluminum to magnesium (in at.%) is 1:6 to 4:6. The invention also relates to a method for producing the magnesium alloy.

IPC 8 full level

C22C 23/00 (2006.01); **C22C 21/08** (2006.01); **C22C 23/02** (2006.01); **C22C 24/00** (2006.01); **C22F 1/047** (2006.01); **C22F 1/05** (2006.01); **C22F 1/06** (2006.01)

CPC (source: CN EP KR US)

C22C 9/04 (2013.01 - CN); **C22C 14/00** (2013.01 - CN); **C22C 21/00** (2013.01 - CN); **C22C 21/02** (2013.01 - CN US); **C22C 21/08** (2013.01 - CN EP KR US); **C22C 21/10** (2013.01 - CN); **C22C 21/16** (2013.01 - CN); **C22C 23/00** (2013.01 - CN EP US); **C22C 23/02** (2013.01 - CN EP KR); **C22C 24/00** (2013.01 - CN EP KR); **C22F 1/04** (2013.01 - CN); **C22F 1/043** (2013.01 - US); **C22F 1/047** (2013.01 - EP KR US); **C22F 1/05** (2013.01 - EP KR); **C22F 1/06** (2013.01 - CN EP KR US); **C22F 1/16** (2013.01 - CN); **C22F 1/183** (2013.01 - CN)

Citation (search report)

See references of WO 2021005062A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3763845 A1 20210113; **EP 3763845 B1 20210818**; CA 3137604 A1 20210114; CA 3138658 A1 20210114; CN 114026260 A 20220208; CN 114026260 B 20230620; CN 114096690 A 20220225; EP 3997251 A1 20220518; JP 2022540542 A 20220916; JP 2022540544 A 20220916; KR 20220030243 A 20220310; KR 20220030244 A 20220310; US 2022259705 A1 20220818; US 2022267881 A1 20220825; WO 2021004662 A1 20210114; WO 2021005062 A1 20210114

DOCDB simple family (application)

EP 19184999 A 20190708; CA 3137604 A 20200325; CA 3138658 A 20200707; CN 202080046287 A 20200325; CN 202080049996 A 20200707; EP 2020058280 W 20200325; EP 2020069131 W 20200707; EP 20735621 A 20200707; JP 2021567860 A 20200325; JP 2021568980 A 20200707; KR 20227000718 A 20200707; KR 20227000723 A 20200325; US 202017625359 A 20200325; US 202017625360 A 20200707