

Title (en)
MAGNESIUM-BASED ALLOY

Title (de)
MAGNESIUM-BASISLEGIERUNG

Title (fr)
ALLIAGE À BASE DE MAGNÉSIUM

Publication
EP 2021521 B1 20161116 (DE)

Application
EP 07718397 A 20070419

Priority
• AT 2007000181 W 20070419
• AT 8692006 A 20060519

Abstract (en)
[origin: WO2007134345A1] The invention relates to a magnesium-based alloy and to a semifinished part having a uniformly small grain size and a good cold forming capability which is produced therefrom. To produce a fine-grained slug whose material is highly formable (deep-drawable) at elevated temperature and at room temperature and has desired corrosion properties from a cast block, the invention provides a magnesium-based alloy (L1, L2) containing, in percent by weight, zinc (Zn) more than 0.8, but less than 6.2, zirconium (Zr) traces, but less than 1.0, manganese (Mn) more than 0.04, but less than 0.6, calcium (Ca) more than 0.04, but less than 2.0, silicon (Si) traces, but less than 1.0, antimony (Sb) traces, but less than 0.5, silver (Ag) more than 0.1, but less than 2.0, with magnesium and impurities due to production as balance.

IPC 8 full level
C22C 23/04 (2006.01)

CPC (source: EP US)
C22C 23/04 (2013.01 - EP US); **C22F 1/06** (2013.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007134345 A1 20071129; AT 503854 A4 20080115; AT 503854 B1 20080115; EP 2021521 A1 20090211; EP 2021521 B1 20161116; ES 2615127 T3 20170605; SI 2021521 T1 20170426; US 2009291015 A1 20091126

DOCDB simple family (application)
AT 2007000181 W 20070419; AT 8692006 A 20060519; EP 07718397 A 20070419; ES 07718397 T 20070419; SI 200731889 A 20070419; US 30136407 A 20070419