

Title (en)
DEGRADABLE MG ALLOY

Title (de)
ABBAUBARE MG-LEGIERUNG

Title (fr)
ALLIAGE DE MG DÉGRADABLE

Publication
EP 3438303 A4 20190206 (EN)

Application
EP 16896913 A 20160331

Priority
JP 2016060740 W 20160331

Abstract (en)
[origin: EP3438303A1] A degradable Mg alloy containing: 3.9% by mass or more and 14.0% by mass or less of Al, from 0.1% by mass or more and 0.6% by mass or less of Mn, and 0.0% by mass or more and 1.0% by mass or less of Zn; 0.01% by mass or more and 10.0% by mass or less of Ni, Cu, or both of Ni and Cu; and the balance consisting of Mg and inevitable impurities is used to manufacture a degradable structural member made of a magnesium alloy having sufficient strength and degrading at an appropriate timing in an aqueous environment.

IPC 8 full level
C22C 23/02 (2006.01); **C22C 23/00** (2006.01); **C22F 1/06** (2006.01)

CPC (source: EP KR US)
C22C 23/00 (2013.01 - EP KR US); **C22C 23/02** (2013.01 - EP KR US); **C22F 1/06** (2013.01 - EP US)

Citation (search report)

- [XA] EP 2116622 A1 20091111 - GEESTHACHT GKSS FORSCHUNG [DE]
- [X] EP 1847626 A2 20071024 - MOTEGI TETSUICHI [JP], et al
- [X] US 2012156087 A1 20120621 - KAWABATA HIROYUKI [JP], et al
- [X] US 2016024619 A1 20160128 - WILKS TIM [GB], et al
- [X] CN 103397235 A 20131120 - UNIV CHONGQING
- See references of WO 2017168696A1

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 3438303 A1 20190206; EP 3438303 A4 20190206; EP 3438303 B1 20200219; CN 108884528 A 20181123; JP 6692411 B2 20200513; JP WO2017168696 A1 20190214; KR 102542754 B1 20230612; KR 20180125523 A 20181123; PL 3438303 T3 20200921; US 2019085432 A1 20190321; WO 2017168696 A1 20171005

DOCDB simple family (application)
EP 16896913 A 20160331; CN 201680082916 A 20160331; JP 2016060740 W 20160331; JP 2018508290 A 20160331; KR 20187029728 A 20160331; PL 16896913 T 20160331; US 201616085278 A 20160331