

Title (en)
METHOD FOR PRODUCING A STRUCTURAL MATERIAL MADE OF MAGNESIUM-CONTAINING ALUMINIUM-BASED ALLOY

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES BAUMATERIALS AUS MAGNESIUMHALTIGER LEGIERUNG AUF ALUMINIUMBASIS

Title (fr)
PROCÉDÉ DE FABRICATION D'UN MATÉRIAU DE CONSTRUCTION À PARTIR D'UN ALLIAGE À BASE D'ALUMINIUM CONTENANT DU MAGNÉSIUM

Publication
EP 2113576 A4 20171129 (EN)

Application
EP 07793983 A 20070124

Priority
RU 2007000026 W 20070124

Abstract (en)
[origin: EP2113576A1] The invention relates to foundry and rolling engineering. The inventive method for producing a structural material made of an aluminium-based alloy having the following component weighting ratio (%): 9.0-11.0 magnesium, 0.15-0.2 zirconium, 0.01-0.001 cobalt, 0.001-0.02 beryllium, aluminium being the rest, consists in producing a billet, in exposing it to heat treatment and in rolling said billet, wherein a melt used for producing the billet is crystallised in a rotating crystalliser with a gravitation factor ranging from 220 to 250 during the melt lifetime of 12-15 sec/kg.

IPC 8 full level
C22F 1/047 (2006.01); **B22D 11/14** (2006.01); **C22C 1/00** (2006.01); **C22C 1/02** (2006.01); **C22C 21/06** (2006.01); **C22F 1/00** (2006.01); **C22F 1/04** (2006.01)

CPC (source: EP)
B22D 11/144 (2013.01); **C22C 1/00** (2013.01); **C22C 1/02** (2013.01); **C22C 21/06** (2013.01); **C22F 1/00** (2013.01); **C22F 1/04** (2013.01); **C22F 1/047** (2013.01)

Citation (search report)

- [I] RU 2111826 C1 19980527 - ZHIVODEROV VIKTOR MAKAR EVICH, et al
- [A] WO 2006077779 A1 20060727 - KOBE STEEL LTD [JP], et al
- [A] US 5423925 A 19950613 - SHOJI RYO [JP], et al
- [A] JP H06136496 A 19940517 - FURUKAWA ALUMINIUM, et al
- [A] JP H06136497 A 19940517 - FURUKAWA ALUMINIUM, et al
- [A] JP H05345963 A 19931227 - FURUKAWA ALUMINIUM, et al
- See references of WO 2008091174A1

Cited by
US11149332B2

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 NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK RS

DOCDB simple family (publication)
EP 2113576 A1 20091104; EP 2113576 A4 20171129; EP 2113576 B1 20181128; CN 101583730 A 20091118; CN 101583730 B 20111207; WO 2008091174 A1 20080731

DOCDB simple family (application)
EP 07793983 A 20070124; CN 200780050147 A 20070124; RU 2007000026 W 20070124