

Title (en)  
LIGHT METAL CASTING PART AND METHOD OF ITS PRODUCTION

Title (de)  
LEICHTMETALLGUSSBAUTEIL UND VERFAHREN ZUM HERSTELLEN EINES LEICHTMETALLGUSSBAUTEILS

Title (fr)  
PIÈCE COULÉE EN ALLIAGE LÉGER ET PROCÉDÉ DE SA FABRICATION

Publication  
**EP 3162460 A1 20170503 (DE)**

Application  
**EP 15192538 A 20151102**

Priority  
EP 15192538 A 20151102

Abstract (en)  
[origin: WO2017076801A1] The invention relates to a method for producing a light metal cast component from a melt comprising an aluminium casting alloy which contains, respectively by weight, 3.5 to 5.0% silicon, 0.2 to 0.7% magnesium, 0.07 to 0.12% titanium, at most 0.12 % boron, optionally less than a total of 1.5% of other alloy elements, the remainder being aluminium and unavoidable impurities. The melt is produced from a basic melt, a first grain refiner comprising an aluminium-silicon alloy and a second grain refiner comprising an aluminium titanium alloy wherein, relative to the total weight, the melt contains in total an amount of 0.1 to 5.0% of the first and second grain refiners; wherein the casting is carried out by the low-pressure method and, after casting, the melt is subjected to pressure.

Abstract (de)  
Die Erfindung betrifft ein Leichtmetallgussbauteil für ein Kraftfahrzeug, das aus einer untereutektischen Aluminium-Gusslegierung hergestellt ist, wobei das Leichtmetallgussbauteil 3,5 bis 5,0 Gewichtsprozent Silizium und 0,2 bis 0,7 Gewichtsprozent Magnesium enthält und wobei das Leichtmetallgussbauteil eine mittlere Korngröße von maximal 500 Mikrometern aufweist. Die Erfindung betrifft ferner ein Verfahren zur Herstellung eines solchen Leichtmetallgussbauteils.

IPC 8 full level  
**B22D 1/00** (2006.01); **B22D 18/02** (2006.01); **B22D 21/00** (2006.01); **C22C 21/04** (2006.01); **C22F 1/04** (2006.01); **C22F 1/043** (2006.01)

CPC (source: EP KR US)  
**B22D 1/00** (2013.01 - EP KR US); **B22D 18/02** (2013.01 - EP KR US); **B22D 18/04** (2013.01 - EP US); **B22D 21/007** (2013.01 - EP KR US); **C22C 21/02** (2013.01 - EP US); **C22C 21/04** (2013.01 - KR); **C22F 1/04** (2013.01 - EP KR US); **C22F 1/043** (2013.01 - EP US)

Citation (applicant)

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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 3162460 A1 20170503**; AU 2016351164 A1 20180531; BR 112018008345 A2 20181030; CN 108290210 A 20180717; CN 108290210 B 20210706; EP 3370900 A1 20180912; EP 3370900 B1 20230426; JP 2019501777 A 20190124; JP 6824264 B2 20210203; KR 102196323 B1 20201230; KR 20180067565 A 20180620; MX 2018005246 A 20180921; PL 3370900 T3 20230828; US 10801089 B2 20201013; US 2018305793 A1 20181025; WO 2017076801 A1 20170511

DOCDB simple family (application)  
**EP 15192538 A 20151102**; AU 2016351164 A 20161031; BR 112018008345 A 20161031; CN 201680063378 A 20161031; EP 16788143 A 20161031; EP 2016076218 W 20161031; JP 2018522678 A 20161031; KR 20187012329 A 20161031; MX 2018005246 A 20161031; PL 16788143 T 20161031; US 201615770325 A 20161031