

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  
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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  
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