

Title (en)

LIGHT METAL CASTING PART AND METHOD OF ITS PRODUCTION

Title (de)

VERFAHREN ZUM HERSTELLEN EINES LEICHTMETALLGUSSBAUTEILS UND LEICHTMETALLGUSSBAUTEIL

Title (fr)

PIÈCE COULÉE EN ALLIAGE LÉGER ET PROCÉDÉ DE SA FABRICATION

Publication

EP 3370900 B1 20230426 (DE)

Application

EP 16788143 A 20161031

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.

IPC 8 full level

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Citation (examination)

SPIEKERMANN P: "Legierungen - ein besonderes patentrechtliches Problem?", MITTEILUNGEN DER DEUTSCHEN PATENTANWÄLTE, HEYMANN, KOLN, DE, vol. 34, 1 January 1993 (1993-01-01), pages 178 - 190, XP002152326, ISSN: 0026-6884

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