

Title (en)

ALUMINUM ALLOY PLASTIC WORKING MATERIAL AND PRODUCTION METHOD THEREFOR

Title (de)

ALUMINIUMLEGIERUNG-KUNSTSTOFF-ARBEITSMATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATÉRIAU DE TRAVAIL DE MATIÈRE PLASTIQUE ET D'ALLIAGE D'ALUMINIUM ET SON PROCÉDÉ DE PRODUCTION

Publication

EP 3486340 A4 20191120 (EN)

Application

EP 17827456 A 20170630

Priority

- JP 2016137522 A 20160712
- JP 2017024184 W 20170630

Abstract (en)

[origin: EP3486340A1] The present invention provides an aluminum alloy plastic working material which has a low Young's modulus, but has superior proof stress, and a method for efficiently producing the aluminum alloy plastic working material. The aluminum alloy plastic working material according to the present invention contains 5.0-10.0 wt% of Ca, the balance being aluminum and incidental impurities, and has 25% or more by volume of an Al 4 Ca phase which is a dispersed phase. The Al 4 Ca phase comprises a tetragonal Al 4 Ca phase and a monoclinic Al 4 Ca phase, and the intensity ratio (I1/I2) of the highest diffraction peak (I1) attributed to the tetragonal system to the highest diffraction peak (I2) attributed to the monoclinic system, which are obtained by an X-ray diffraction measurement, is one or less.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

- [A] EP 2189548 A1 20100526 - NISSAN MOTOR [JP], et al
- [A] JP 2010126740 A 20100610 - NISSAN MOTOR, et al
- See references of WO 2018012326A1

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