

Title (en)

MG-AL-CA-BASED MASTER ALLOY FOR MG ALLOYS, AND A PRODUCTION METHOD THEREFOR

Title (de)

MG-AL-CA-BASIERTE MASTERLEGIERUNG FÜR MG-LEGIERUNGEN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

ALLIAGE MAÎTRE À BASE DE MG-AL-CA POUR DES ALLIAGES DE MG, ET PROCÉDÉ DE PRODUCTION DE CELUI-CI

Publication

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Application

EP 12763216 A 20120330

Priority

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Abstract (en)

[origin: EP2692883A2] The present invention relates to an Mg-Al-Ca based master alloy for Mg alloys and to a production method therefor, and concerns an alloying master alloy used for magnesium or magnesium alloys. To this end, according to a feature of the invention, while a Ca:Al composition ratio is maintained at between 7:3 and 1:9, based on percentages by weight in the alloy, a balance of Mg is added in an amount of up to 85% of the entire weight of the master alloy, based on percentage by weight. The production method comprises the steps of: preparing components of a master alloy by selecting a composition in which, while a Ca:Al composition ratio is maintained at between 7:3 and 1:9, based on percentages by weight in the alloy, there is a balance of Mg in an amount of up to 85% of the entire weight of the master alloy, based on percentage by weight; sequentially melting Mg, Al and Ca; completely melting the components by applying an adequate amount of heat; and rapidly cooling the molten metal.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

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US10633228B2

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