

Title (en)

Complex magnesium alloy member and method for producing same

Title (de)

Komplexes Magnesiumlegierungselement und Herstellungsverfahren dafür

Title (fr)

Élément en alliage de magnésium complexe et son procédé de production

Publication

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Application

EP 13183125 A 20130905

Priority

JP 2012194953 A 20120905

Abstract (en)

[origin: EP2706127A1] [Problem] An object is to provide a complex magnesium alloy member in which magnesium alloys having different alloy compositions are merged into each other. [Solving means] The complex magnesium alloy member according to the present invention comprises: a first portion comprising a first magnesium alloy having a first alloy composition; a second portion comprising a second magnesium alloy having a second alloy composition different from the first alloy composition; and a boundary portion comprising an intermediate magnesium alloy having an intermediate alloy composition between the first alloy composition and the second alloy composition, the boundary portion merging into and abutting the first portion and the second portion to form a boundary between the first portion and the second portion. Such a complex magnesium alloy member can be obtained such as by casting a cast material that has a high liquidus temperature with a magnesium alloy cast-in material that has a low liquidus temperature. According to the complex magnesium alloy member of the present invention, a magnesium alloy product can be obtained at low cost, which has different characteristics depending on the sites thereof.

IPC 8 full level

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