

Title (en)

Method of manufacturing magnesium alloy products

Title (de)

Mg-Legierung Produkt und Verfahren zur Herstellung

Title (fr)

Procédé de fabrication des produits d'alliage à base de Mg

Publication

EP 1347074 B1 20060503 (EN)

Application

EP 03002095 A 20030130

Priority

JP 2002067184 A 20020312

Abstract (en)

[origin: EP1347074A1] In order to achieve the manufacture of products, which have complex and accurate figure and exhibit high reliability of properties and enough corrosion resistance, at sufficiently high yield ratio by employing a combination of casting and forging for forming magnesium alloy of which composition allows casting and which is excellent in forgeability, a magnesium alloy containing 2-10 mass % aluminum is cast to have crystal grain size not greater than 30 μ m. After the cast semifinished product is subjected to solution treatment, the semifinished product is forged to have crystal grain size not greater than 10 μ m and is then further forged to have a desired figure. A magnesium alloy containing 2-10 mass % aluminum is cast to have crystal grain size not greater than 10 μ m and the cast semifinished product is forged after solution treatment. <IMAGE>

IPC 8 full level

B22D 21/04 (2006.01); **C22F 1/06** (2006.01); **B21J 5/00** (2006.01); **B22D 17/00** (2006.01); **C22C 23/02** (2006.01); **C22F 1/00** (2006.01)

CPC (source: EP KR US)

C22C 23/02 (2013.01 - EP US); **C22F 1/06** (2013.01 - EP KR US)

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EP 1347074 A1 20030924; **EP 1347074 B1 20060503**; CN 1283822 C 20061108; CN 1443862 A 20030924; DE 60304920 D1 20060608; DE 60304920 T2 20070104; DE 60304920 T8 20070516; JP 2003268513 A 20030925; JP 3861720 B2 20061220; KR 20030074385 A 20030919; TW 200304496 A 20031001; TW I263681 B 20061011; US 2003173005 A1 20030918

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