

Title (en)

Use of a cast aluminium alloy for the production of cylinder heads in combustion engines

Title (de)

Verwendung einer Aluminium-Gusslegierung zur Herstellung von Zylinderköpfen für Verbrennungsmotoren

Title (fr)

Utilisation d'un alliage d'aluminium de fonderie pour la production de têtes de cylindres dans les moteurs à combustion

Publication

**EP 1972696 B1 20100901 (DE)**

Application

**EP 08002909 A 20080216**

Priority

DE 102007012423 A 20070315

Abstract (en)

[origin: EP1972696A1] The aluminum casting alloy has the following composition, all expressed in percentages by weight: silicon 4.5-6.0, magnesium 0.20-0.55, titanium 0-0.20, iron less than 0.30, manganese 2/3 of the iron content at most, copper 0.10-0.45, zinc less than 0.07, The remainder is aluminum and inevitable impurities individually amounting to 0.03 at most, and collectively 0.1 at most. An alternative composition of the alloy is specified using the following percentages by weight: magnesium 0.25-0.45, titanium 0.05-0.10, iron less than 0.15 and/or copper 0.15-0.35.

IPC 8 full level

**C22C 21/02** (2006.01)

CPC (source: EP)

**C22C 21/02** (2013.01); **C22C 21/04** (2013.01)

Cited by

EP2455505A1; CN107868889A; CN112575230A; DE102009032588A1

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