

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

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

EP 1972696 A1 20080924; EP 1972696 B1 20100901; DE 102007012423 A1 20080918; DE 502008001226 D1 20101014

DOCDB simple family (application)

EP 08002909 A 20080216; DE 102007012423 A 20070315; DE 502008001226 T 20080216