

Title (en)

Aluminium-silicon cast alloy for piston and castpart production

Title (de)

Aluminium-silizium-gusslegierung sowie daraus hergestellter kolben und gussstück

Title (fr)

Alliage d'aluminium-silicium pour piston et pièce coulée

Publication

EP 1340827 B1 20041124 (DE)

Application

EP 03002574 A 20030207

Priority

DE 10206035 A 20020214

Abstract (en)

[origin: EP1340827A1] Casting alloy comprises (in wt.%) 7-25 silicon, 0.1-1.2 magnesium, 0.01-0.2 vanadium, 0.0005-0.01 beryllium, at most 1.2 iron, at most 5.5 copper, at most 1.2 manganese, at most 4 nickel, at most 2.5 zinc, at most 0.2 lead, at most 0.2 titanium, at most 0.1 other impurities, and a balance of aluminum. Preferred Features: The alloy contains (in wt.%) 0.05-1.2, especially 0.1-1.2 vanadium, 0.005-0.0035 beryllium, less than 1 magnesium, and not more than 10 ppm calcium.

IPC 1-7

C22C 21/00; **C22C 21/02**

IPC 8 full level

C22C 21/00 (2006.01); **C22C 21/02** (2006.01)

CPC (source: EP)

C22C 21/02 (2013.01)

Cited by

DE102014209102A1; CN102181758A; EP1871555A4; EP1524324A3; EP2971208A4; CN110241332A; US10370742B2; US7959856B2; US11280292B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 1340827 A1 20030903; **EP 1340827 B1 20041124**; DE 10206035 A1 20030828; DE 50300161 D1 20041230

DOCDB simple family (application)

EP 03002574 A 20030207; DE 10206035 A 20020214; DE 50300161 T 20030207