

Title (en)
High-temperature aluminium alloy

Title (de)
Warmfeste Aluminiumlegierung

Title (fr)
Alliage d'aluminium résistant à la chaleur

Publication
EP 1997924 B1 20091223 (DE)

Application
EP 07405150 A 20070524

Priority
EP 07405150 A 20070524

Abstract (en)
[origin: EP1997924A1] Cold-hardening aluminum alloys with good heat resistance, useful for producing components subject to thermal and mechanical stress, contain (wt%): silicon 11.0 - 12.0; magnesium 0.7 - 2.0; manganese 0.1 - 1; iron 1 max; copper 2 max; nickel 2 max; chromium 1 max; cobalt 1 max; zinc 2 max; titanium 0.25 max; boron 40 ppm max; and optionally 80 - 300 ppm strontium, the remainder being aluminum and impurities in an amount individually of 0.05 wt% max and 0.2 wt% in total. Independent claims are included for: (A) use of the alloys for casting components subject to thermal and mechanical stress; and (B) castings produced from the alloys.

IPC 8 full level
C22C 21/04 (2006.01)

CPC (source: EP US)
B22D 17/00 (2013.01 - EP US); **C22C 1/06** (2013.01 - EP US); **C22C 21/02** (2013.01 - EP US)

Cited by
DE102018117418A1; CN102296218A; CN105986154A; CN104093867A; CN107245612A; EP2669396A4; WO2020016283A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1997924 A1 20081203; EP 1997924 B1 20091223; AU 2008202288 A1 20081211; BR PI0801506 A2 20090113; CN 101311283 A 20081126; CN 101311283 B 20150304; DE 502007002411 D1 20100204; JP 2008291364 A 20081204; JP 5442961 B2 20140319; RU 2008120140 A 20091127; RU 2458171 C2 20120810; US 2012164021 A1 20120628; US 8574382 B2 20131105

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