

Title (en)

HEAT-RESISTANT ALUMINUM ALLOY AND PROCESS FOR ITS PRODUCTION.

Title (de)

HITZEBESTÄNDIGE ALUMINIUMLEGIERUNG UND VERFAHREN ZUR HERSTELLUNG.

Title (fr)

ALLIAGE D'ALUMINIUM THERMO-RESISTANT ET PROCEDE DE PRODUCTION.

Publication

EP 0336981 A4 19900206 (EN)

Application

EP 88908986 A 19881012

Priority

JP 25668687 A 19871012

Abstract (en)

[origin: WO8903435A1] A heat-resistant aluminum alloy, which contains 5 to 10 wt % of iron, 0.5 to 3 wt % of molybdenum, 0.5 to 3 wt % of at least one element selected from among chromium, zirconium and vanadium, with the sum of iron, molybdenum, chromium, zirconium and vanadium being 6 to 16 wt %, and the balance of substantially aluminum, and which has a tensile strength at 300C of 26kg/mm² or more. This alloy can be produced by preparing an aluminum alloy powder of the above-described formulation according to the melt atomizing process, and solidifying and molding the product at temperatures of 400 to 580C.

IPC 1-7

B22F 9/08; **C22C 1/04**; **C22C 21/00**

IPC 8 full level

C22C 1/04 (2006.01); **C22C 21/00** (2006.01)

CPC (source: EP)

C22C 1/0416 (2013.01); **C22C 21/00** (2013.01)

Citation (search report)

- [A] METAL ABSTRACTS, vol. 19, no. 6, June 1986, page 171, abstract no. 54-0480; D. SKINNER et al.: "Enhancement of high temperature strength of aluminum alloys by rapid quenching from the melt", & MODERN ADVANCES IN POWDER METALLURGY, VOL. 16, FERROUS AND NONFERROUS MATERIALS (PROC. CONF.), TORONTO, CANADA, 17-22 JUNE 1984; PUBLISHED METAL POWDER INDUSTRIES FEDERATION, PRINCETON, NEW JERSEY, USA 1985
- See references of WO 8903435A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

WO 8903435 A1 19890420; DE 3887503 D1 19940310; DE 3887503 T2 19940630; EP 0336981 A1 19891018; EP 0336981 A4 19900206; EP 0336981 B1 19940126; JP H01100234 A 19890418

DOCDB simple family (application)

JP 8801037 W 19881012; DE 3887503 T 19881012; EP 88908986 A 19881012; JP 25668687 A 19871012