

Title (en)

PROCESS FOR MANUFACTURING POWDER COMPACTS WITH A HIGH RESISTANCE AND RELATIVELY LOW DENSITY FROM A HEAT-RESISTING ALUMINIUM ALLOY

Publication

**EP 0256450 B1 19910130 (DE)**

Application

**EP 87111463 A 19870807**

Priority

CH 323086 A 19860812

Abstract (en)

[origin: US4758405A] A green pressed article of high strength and of low relative density, formed from a heat-resistant aluminum alloy of the Al/Fe/X or Al/Cr/X type, where X is Ti, Ce, Zr, Hf, V, Nb, Cr, Mo or W, is produced by a powder-metallurgical process, wherein an alloy melt is atomized to form fine particles by means of an inert gas jet, with which 0.5 to 2% by volume of oxygen is admixed, and the powder produced in this manner is compactd. Nitrogen, argon or helium can be employed as inert gas. The green pressed article is preferably formed from a small proportion of coarser, non-spherical particles and a greater proportion of finer, spherical particles.

IPC 1-7

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

IPC 8 full level

**B22F 9/08** (2006.01); **C22C 1/04** (2006.01); **C22C 1/05** (2006.01)

CPC (source: EP US)

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