

Title (en)

High temperature shape memory alloy actuators

Title (de)

Hochtemperatur-Formspeicherlegierungsaktuatoren

Title (fr)

Actionneurs en alliage à mémoire de forme haute température

Publication

EP 2116621 A2 20091111 (EN)

Application

EP 09250494 A 20090224

Priority

US 3842408 A 20080227

Abstract (en)

A high temperature component having an actuator body 201 including an actuatable portion comprising a shape memory alloy containing one more of Ni, Al, Nb, Ti and Ta and a platinum-group metal. The shape memory alloy has an altered geometry at a predetermined temperature. The actuator body 201 is also capable of operation in and is resistant to high temperature oxidizing atmospheres. A method for forming an actuator and a method for high temperature control are also disclosed.

IPC 8 full level

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CPC (source: EP US)

C22C 19/00 (2013.01 - EP US); **C22F 1/006** (2013.01 - EP US); **C22F 1/10** (2013.01 - EP US); **F01D 11/001** (2013.01 - EP US); **C21D 2201/01** (2013.01 - EP US); **F05D 2300/505** (2013.01 - EP US)

Cited by

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