

Title (en)
METAL HYDRIDE ACTUATOR

Title (de)
METALLHYDRIDSTELLGLIED

Title (fr)
ACTIONNEUR D HYDRURE DE MÉTAL

Publication
EP 1899603 A1 20080319 (EN)

Application
EP 06752853 A 20060629

Priority
• CA 2006001081 W 20060629
• US 69468305 P 20050629

Abstract (en)
[origin: WO2007000058A1] A metal hydride actuator comprising a pressure chamber having a first and second pressure chamber portions and at least one reaction chamber operatively connected to one of the first and second pressure chamber portions, the at least one reaction chamber having a temperature adjustment mechanism and containing therein metal hydride powder. A piston is positioned in the pressure chamber, the piston forming a barrier between the first and second pressure chamber portions, and a movement transmission means is operatively connected to the piston, the movement transmission means being so positioned in the first pressure chamber portion as to exit from an opening in a wall of the first pressure chamber portion. The temperature adjustment mechanism may be used to cause a change of temperature of the metal hydride powder in at least one of the reaction chamber, thereby creating a pressure differential between both pressure chamber portions, causing the piston to move.

IPC 8 full level
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Citation (search report)
See references of WO 2007000058A1

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