

Title (en)

ELECTRICAL ACTUATOR HAVING SMART MUSCLE WIRE

Title (de)

ELEKTRISCHES STELLGLIED MIT INTELLIGENTER MUSKELLEITUNG

Title (fr)

DISPOSITIF DE COMMANDE ELECTRIQUE POSSEDANT UN FIL MUSCULAIRE INTELLIGENT

Publication

EP 1690143 A2 20060816 (EN)

Application

EP 04783601 A 20040909

Priority

- US 2004029420 W 20040909
- US 50127903 P 20030909

Abstract (en)

[origin: WO2005024529A2] An electrical actuator is characterized by applying electrical power directly to a smart muscle wire to produce an output motion of the electrical actuator. The smart muscle wire is attached to a moveable member, for example a slide or a lever, to produce the output motion. The smart muscle wire is preferably fixed at each end and looped around a reaction member that is attached to the moveable member either as a separate or an integral part, to double the force that is applied to move the moveable member of the electrical actuator. The force and/or the stroke of the electrical actuator can be designed to meet various requirements easily by changing wire diameter and/or length.

IPC 8 full level

F16K 31/64 (2006.01)

IPC 8 main group level

G05B (2006.01)

CPC (source: EP KR)

B60J 5/047 (2013.01 - KR); **B60J 5/10** (2013.01 - KR); **B62D 25/12** (2013.01 - KR); **E05B 47/0009** (2013.01 - EP KR); **E05B 47/026** (2013.01 - KR); **E05B 81/00** (2013.01 - KR); **F03G 7/065** (2021.08 - EP); **F16H 37/12** (2013.01 - KR); **B60Y 2200/11** (2013.01 - KR)

Citation (search report)

See references of WO 2005024529A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

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US 2004029420 W 20040909; CN 200480025835 A 20040909; EP 04783601 A 20040909; JP 2006526282 A 20040909; KR 20057021697 A 20051114