

Title (en)
MAGNETOTHERMAL ACTUATOR

Title (de)
MAGNETOTHERMISCHER AKTUATORN

Title (fr)
ACTIONNEUR MAGNETOTHERMIQUE

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Application
EP 14715345 A 20140307

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Abstract (en)
[origin: WO2014140461A1] A magnetothermal actuator comprising: - a magnetic actuator consisting of a coil (5) placed in series in an electric line, surrounding a fixed core (1) and a mobile core (4) and driving the mobile core (4) between two positions representing two states of the actuator, inactive and active states respectively, said mobile core (4) being returned to the position corresponding to the inactive state of the actuator by means of first return means (3); - a thermal actuator comprising a deformable component (10) made from a thermosensitive material capable of changing from an initial shape to an end shape representing two states of the actuator, inactive and active states respectively, under the effect of heat generated around same; the magnetic actuator and the thermal actuator being collinear along an axis of revolution (X). The magnetothermal actuator is characterised in that the thermal actuator comprises a heating part (11) made from a thermally conductive material placed in series with said coil (5), said heating part (11) cooperating thermally with said deformable component (10), being capable of generating heat around the latter.

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