

Title (en)

ACTUATOR DEVICE AND METHOD FOR OPERATING AN ACTUATOR DEVICE

Title (de)

AKTORVORRICHTUNG UND VERFAHREN ZUM BETRIEB EINER AKTORVORRICHTUNG

Title (fr)

DISPOSITIF D'ACTIONNEMENT ET PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF D'ACTIONNEMENT

Publication

EP 3596759 A2 20200122 (DE)

Application

EP 18714726 A 20180315

Priority

- DE 102017105531 A 20170315
- EP 2018056603 W 20180315

Abstract (en)

[origin: WO2018167242A2] The invention relates to an actuator device, comprising at least one actuator element (10a; 10b; 10d; 10e; 10f), which consists at least partially of a magnetically shape-changing material and which is at least provided to cause a movement of at least one actuation element (12a; 12e; 12f) by means of a contraction in at least one direction of movement (14a), and a magnetic contraction unit (18a; 18b; 18c; 18g) which is configured to provide a magnetic field acting upon the actuator element (10a; 10b; 10d; 10e; 10f) in order to generate a contraction of the actuator element (10a; 10b; 10d; 10e; 10f). It is proposed that field lines (20a) of the magnetic field are at least aligned substantially parallel to the direction of movement (14a) in the region of the actuator element (10a; 10b; 10d; 10e; 10f).

IPC 8 full level

H01L 41/06 (2006.01); **H01L 41/12** (2006.01); **H01L 41/20** (2006.01)

CPC (source: EP US)

H02N 2/02 (2013.01 - US); **H10N 35/00** (2023.02 - EP US); **H10N 35/80** (2023.02 - US); **H10N 35/85** (2023.02 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2018167242 A2 20180920; **WO 2018167242 A3 20181227**; DE 102017105531 A1 20180920; EP 3596759 A2 20200122; US 11569436 B2 20230131; US 2020303622 A1 20200924

DOCDB simple family (application)

EP 2018056603 W 20180315; DE 102017105531 A 20170315; EP 18714726 A 20180315; US 201816493483 A 20180315