

Title (en)

ACTUATOR APPARATUS, USE OF THE ACTUATOR APPARATUS AND SYSTEM HAVING AN ACTUATOR APPARATUS OF THIS KIND

Title (de)

AKTUATORVORRICHTUNG, VERWENDUNG DER AKTUATORVORRICHTUNG SOWIE SYSTEM MIT EINER SOLCHEN AKTUATORVORRICHTUNG

Title (fr)

DISPOSITIF ACTIONNEUR, UTILISATION DU DISPOSITIF ACTIONNEUR ET SYSTÈME COMPRENANT UN TEL DISPOSITIF ACTIONNEUR

Publication

**EP 3123535 A1 20170201 (DE)**

Application

**EP 15707046 A 20150203**

Priority

- DE 102014104327 A 20140327
- EP 2015052193 W 20150203

Abstract (en)

[origin: WO2015144348A1] The invention relates to an actuator apparatus having an expansion unit (10) which has a magnetic shape-memory alloy material (MSM), is designed to interact with an actuating partner and, in response to an induced magnetic flux, executes an expansion movement along an expansion direction and can be oriented along a longitudinal axis, which is determined by the expansion direction, on the actuating partner and has, at one end, an operative section (14, 18) for exerting an actuating force on the actuating partner, wherein pretensioning and/or spring means (22, 24) are associated with the other end of the expansion unit, in particular opposite the operative section, such that, in an operating state in which magnetic flux is not applied, the expansion unit can exert a force, in particular a shear, actuating and/or holding force, on the actuating partner and/or the expansion unit can have a damping effect.

IPC 8 full level

**H01L 41/12** (2006.01); **H02N 2/00** (2006.01); **H02N 2/02** (2006.01)

CPC (source: EP)

**H02N 2/02** (2013.01); **H10N 35/00** (2023.02)

Citation (search report)

See references of WO 2015144348A1

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)

**DE 102014104327 A1 20151001**; EP 3123535 A1 20170201; WO 2015144348 A1 20151001

DOCDB simple family (application)

**DE 102014104327 A 20140327**; EP 15707046 A 20150203; EP 2015052193 W 20150203