

Title (en)

MONOSTABLE ELECTROMAGNETIC ACTUATOR DEVICE

Title (de)

MONOSTABILE ELEKTROMAGNETISCHE AKTUATORVORRICHTUNG

Title (fr)

DISPOSITIF ACTIONNEUR ÉLECTROMAGNÉTIQUE MONOSTABLE

Publication

EP 2491565 B1 20150729 (DE)

Application

EP 10779222 A 20101014

Priority

- DE 202009014192 U 20091020
- EP 2010006282 W 20101014

Abstract (en)

[origin: WO2011047801A1] The invention relates to a monostable electromagnetic actuator device, in particular a shift actuator device, comprising an armature unit, which has permanent magnet means (12) and an armature tappet (10, 18) in contact thereto and which can be driven to perform a control operation as a reaction to the supply of current to a stationary coil device (34, 42). According to the invention, the armature unit is provided and designed in such a way that the armature unit can be moved by means of magnetic repulsion from a first stop position that is stable without current to a second position that is unstable without current as a reaction to the supply of current, and the armature tappet unit has several parts in the axial direction, wherein a first armature tappet section (10) and a second armature tappet section (18) are coupled by means of a tensible force storage element (20), in particular a tension spring, in such a way that said first and second armature tappet sections can be moved relative to each other in the axial direction.

IPC 8 full level

H01F 7/121 (2006.01); **H01F 7/16** (2006.01)

CPC (source: EP)

H01F 7/121 (2013.01); **H01F 7/1646** (2013.01); **H01F 2007/1692** (2013.01)

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

DOCDB simple family (publication)

DE 202009014192 U1 20110303; EP 2491565 A1 20120829; EP 2491565 B1 20150729; WO 2011047801 A1 20110428

DOCDB simple family (application)

DE 202009014192 U 20091020; EP 10779222 A 20101014; EP 2010006282 W 20101014