

Title (en)
ELECTROMAGNETIC ACTUATOR

Title (de)
ELEKTROMAGNETISCHE BETÄTIGUNGSVORRICHTUNG

Title (fr)
ACTIONNEUR ÉLECTROMAGNÉTIQUE

Publication
EP 3014635 B1 20220427 (DE)

Application
EP 14733993 A 20140614

Priority

- DE 102013010833 A 20130628
- EP 2014001618 W 20140614

Abstract (en)
[origin: WO2014206537A1] An electromagnetic actuating apparatus, in particular a proportional magnet or switching magnet, comprising a magnet armature (4), which is guided in axially movable fashion in a pole tube (2), which is at least partially surrounded by a coil winding and which is adjoined by a pole core (10) via a separating region (20) forming a magnetic decoupling, wherein, on energization of the coil winding (52), a magnetic force acts on the armature (4), which magnetic force attempts to move said armature (4) in the direction of the pole core (10) within a travel area, characterized in that at least one insert (28) consisting of ferromagnetic material with a preset axial thickness can be introduced between the armature (4) and the pole core (10) in order to shorten, as desired, the axial length of the travel area.

IPC 8 full level
H01F 7/16 (2006.01); **H01F 7/08** (2006.01); **H01F 7/13** (2006.01)

CPC (source: EP US)
H01F 7/13 (2013.01 - EP US); **H01F 7/1607** (2013.01 - EP US); **H01F 7/1615** (2013.01 - US); **H01F 2007/085** (2013.01 - EP US);
H01F 2007/1661 (2013.01 - EP US)

Citation (examination)

- EP 1953773 A2 20080806 - SVM SCHULTZ VERWALTUNGS GMBH & [DE]
- EP 2254130 A2 20101124 - BOSCH GMBH ROBERT [DE]

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 102013010833 A1 20141231; EP 3014635 A1 20160504; EP 3014635 B1 20220427; US 2016118174 A1 20160428;
US 9941042 B2 20180410; WO 2014206537 A1 20141231

DOCDB simple family (application)
DE 102013010833 A 20130628; EP 14733993 A 20140614; EP 2014001618 W 20140614; US 201414896678 A 20140614