

Title (en)
ELECTROMAGNETIC POSITIONING DEVICE

Title (de)
ELEKTROMAGNETISCHE STELLVORRICHTUNG

Title (fr)
DISPOSITIF DE COMMANDE ÉLECTROMAGNÉTIQUE

Publication
EP 2878001 A2 20150603 (DE)

Application
EP 13731701 A 20130531

Priority
• DE 102012106824 A 20120726
• EP 2013061306 W 20130531

Abstract (en)
[origin: WO2014016023A2] The invention relates to an electromagnetic positioning device having an armature unit (18) that can be actuated as a reaction to a current supply of a stationary coil unit (14) relative to a stationary core unit (10), which armature unit has permanent-magnetic means (28) and a tappet unit (31) that is led out of a magnetically flow-conducting housing (35), wherein on the shell side of a shaft section (20) of the armature unit (18) magnetically non-conducting socket means (32) are provided in such a way that in a state of the coil unit (14) in which no current is supplied a permanent-magnetic flow (40) of the permanent-magnet means (28) flows through the core unit (10) and the shaft section (20) for retaining the armature unit (18) on the core unit (10) and in a state of the coil unit (14) in which current is supplied the permanent-magnetic flow (40', 40'') is displaced from the core unit (10) into a housing section (50, 52) of the housing and a permanent-magnetic flow circuit is closed via a section (54) of the tappet unit on the housing side.

IPC 8 full level
H01F 7/06 (2006.01)

CPC (source: EP US)
H01F 7/1615 (2013.01 - EP US); **H01F 7/1623** (2013.01 - US); **H01F 7/122** (2013.01 - EP US)

Citation (search report)
See references of WO 2014016023A2

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 2014016023 A2 20140130; WO 2014016023 A3 20140417; CN 104364858 A 20150218; CN 104364858 B 20170412; DE 102012106824 A1 20140130; EP 2878001 A2 20150603; EP 2878001 B1 20160323; US 2015213937 A1 20150730; US 9343217 B2 20160517

DOCDB simple family (application)
EP 2013061306 W 20130531; CN 201380029336 A 20130531; DE 102012106824 A 20120726; EP 13731701 A 20130531; US 201314417198 A 20130531