

Title (en)

MAGNET ARMATURE, CONTACTOR HAVING A MAGNETIC ARMATURE, AND METHOD FOR SWITCHING A CONTACTOR

Title (de)

MAGNETANKER, SCHÜTZ MIT MAGNETANKER UND VERFAHREN ZUM SCHALTEN EINES SCHÜTZES

Title (fr)

INDUIT MAGNÉTIQUE, CONTACTEUR AVEC INDUIT MAGNÉTIQUE ET PROCÉDÉ DE COMMUTATION D'UN CONTACTEUR

Publication

EP 3326190 B1 20240403 (DE)

Application

EP 16731162 A 20160622

Priority

- DE 102015112052 A 20150723
- DE 102015121033 A 20151203
- EP 2016064467 W 20160622

Abstract (en)

[origin: WO2017012816A1] The invention relates to a magnet armature for a contactor, a contactor and a method for switching a contactor. The magnet armature permits a reduction in the danger of adhering the contacts of a contactor, and also comprises a first spring element having a first stiffness and a second element having a second stiffness. The first spring element is deformed in the transfer from a rest position to a mid-position. The second spring element is deformed in the transfer from the mid-position to an end position.

IPC 8 full level

H01F 7/16 (2006.01)

CPC (source: EP KR US)

H01F 7/1607 (2013.01 - EP); **H01H 50/20** (2013.01 - EP KR US); **H01H 50/36** (2013.01 - US); **H01H 50/44** (2013.01 - US);
H01H 50/56 (2013.01 - US); **H01H 50/645** (2013.01 - EP KR US); **H01H 51/065** (2013.01 - EP KR US); **H01F 2007/086** (2013.01 - EP);
H01H 50/64 (2013.01 - EP US)

Citation (examination)

DE 19814504 A1 19990602 - 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 102015121033 A1 20170126; CN 108140515 A 20180608; CN 108140515 B 20201009; EP 3326190 A1 20180530;
EP 3326190 B1 20240403; JP 2018522382 A 20180809; JP 6643456 B2 20200212; KR 102046266 B1 20191118; KR 20180032617 A 20180330;
US 10804059 B2 20201013; US 2018204698 A1 20180719; WO 2017012816 A1 20170126

DOCDB simple family (application)

DE 102015121033 A 20151203; CN 201680055825 A 20160622; EP 16731162 A 20160622; EP 2016064467 W 20160622;
JP 2018503178 A 20160622; KR 20187005034 A 20160622; US 201615744328 A 20160622