

Title (en)

MAGNET DEVICE COMPRISING STATORS AND TRANSLATORS

Title (de)

MAGNETVORRICHTUNG UMFASSEND STATOREN UND TRANSLATOREN

Title (fr)

DISPOSITIF À AIMANTS COMPORTANT DES STATORS ET DES TRANSLATEURS

Publication

EP 3198619 A1 20170802 (DE)

Application

EP 15791507 A 20150918

Priority

- AT 7272014 A 20140923
- EP 2015071471 W 20150918

Abstract (en)

[origin: WO2016046084A1] The invention relates to a magnet device comprising at least one stator (1) and a translator (2), wherein the stator (1) and the translator (2) comprise in each case at least one magnet with pole ends and a line of action of the magnet, and wherein the translator (2) can be moved along a movement axis (3) in a direction of movement (4), wherein each stator line of action (15) of the stator (1) or each stator extension line (16) of the stator line of action (15), said stator extension line (16) extending as a geometric beam away from the pole end of the stator (1) as a geometric tangent relative to the line of action of the stator (5), and a translator line of action (25) of the translator (2) or a translator extension line (26) of the translator line of action (25), which extends as a geometric tangent away from the pole end of the translator (2) as a geometric tangent to the translator line of action (25), have intersection points (10), and thus the stator line of action (15), optionally the stator extension line (16), the translator line of action (25) and optionally the translator extension line (26) form a closed geometric shape, such that the magnetic flux between the stator (1) and the translator (2) is bundled, wherein lines of action (5) and extension lines (6) extend in a cutting plane (11), which comprises the axis of movement (3), through the magnetic device.

IPC 8 full level

H01F 7/122 (2006.01); **H01F 7/14** (2006.01); **H01F 7/16** (2006.01); **H02K 33/16** (2006.01)

CPC (source: AT CN EP KR US)

H01F 7/081 (2013.01 - KR US); **H01F 7/122** (2013.01 - CN EP KR US); **H01F 7/14** (2013.01 - CN EP KR US); **H01F 7/1646** (2013.01 - AT CN EP KR US); **H01F 7/17** (2013.01 - KR); **H01F 7/1844** (2013.01 - KR US); **H02K 33/16** (2013.01 - AT CN EP KR US); **H02K 41/031** (2013.01 - CN EP KR US); **H01F 2007/086** (2013.01 - US); **H01F 2007/1692** (2013.01 - CN EP US); **H01F 2007/185** (2013.01 - KR US); **H02K 2201/03** (2013.01 - KR US); **H02K 2201/06** (2013.01 - AT)

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 2016046084 A1 20160331; AT 515114 A4 20150615; AT 515114 B1 20150615; AU 2015321004 A1 20170518; AU 2015321004 B2 20210513; BR 112017005974 A2 20171219; CA 2966421 A1 20160331; CA 2966421 C 20230103; CN 107112880 A 20170829; CN 107112880 B 20200918; EA 037494 B1 20210402; EA 201790704 A1 20190131; EP 3198619 A1 20170802; JP 2017537583 A 20171214; JP 6745454 B2 20200826; KR 102336080 B1 20211207; KR 20180012729 A 20180206; MX 2018010342 A 20230607; US 10943721 B2 20210309; US 2017278612 A1 20170928; ZA 201702855 B 20190424

DOCDB simple family (application)

EP 2015071471 W 20150918; AT 7272014 A 20140923; AU 2015321004 A 20150918; BR 112017005974 A 20150918; CA 2966421 A 20150918; CN 201580063248 A 20150918; EA 201790704 A 20150918; EP 15791507 A 20150918; JP 2017516961 A 20150918; KR 20177011127 A 20150918; MX 2018010342 A 20170323; US 201515513962 A 20150918; ZA 201702855 A 20170424