



(51) International Patent Classification:

H02K 1/18 (2006.01) H02K 7/18 (2006.01)
H02K 1/14 (2006.01) H02K 16/04 (2006.01)
H02K 1/27 (2006.01)

(21) International Application Number:

PCT/IB2009/050219

(22) International Filing Date:

21 January 2009 (21.01.2009)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

08425027.3 21 January 2008 (21.01.2008) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN,

HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

(88) Date of publication of the international search report:
23 December 2009

(54) Title: MODULAR ELECTROMAGNETIC DEVICE WITH REVERSIBLE GENERATOR-MOTOR OPERATION

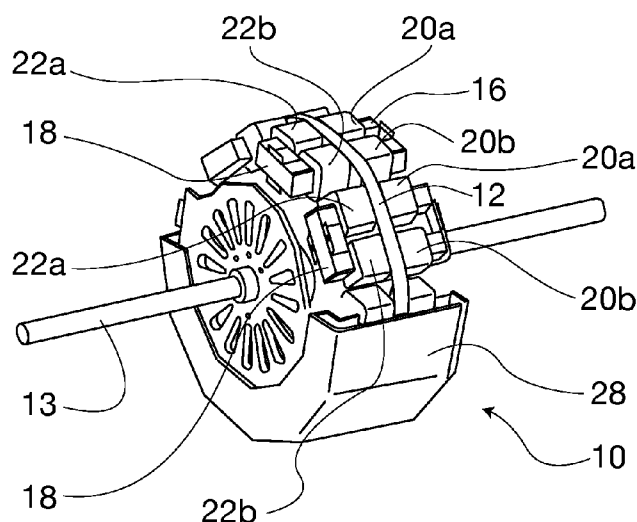


Fig. 1

(57) Abstract: A modular electromagnetic device (7) has a stator (16, 20a, 20b, 18, 22a, 22b) and a rotor (12) rotating between facing surfaces of the stator (16, 20a, 20b, 18, 22a, 22b) and bearing a plurality of magnets (14) distributed with alternate orientations in a substantially ring-shaped pattern, and the stator (16, 20a, 20b, 18, 22a, 22b) comprises at least one pair of magnetic yokes (16, 18) symmetrically located at both sides of the rotor. Each yoke (16, 18) has a pair of projecting arms extending towards the magnets (14) and bearing a respective coil (20a, 20b, 22a, 22b) for collection of electric power from or supply of electric power to the device (10). Each yoke (16, 18) is individually mounted on an own support equipped with adjusting units arranged to adjust the yoke position relative to the confronting magnets (14), and forms, together with its coils (20a, 20b, 22a, 22b; 20', 22'), its support, the adjusting units thereof, and sensing and control means controlling the yoke adjustment, an elementary stator cell that can be replicated to form single-phase or multiphase modules.

INTERNATIONAL SEARCH REPORT

International application No
PCT/IB2009/050219

A. CLASSIFICATION OF SUBJECT MATTER

INV. H02K1/18 H02K1/14
ADD. H02K1/27 H02K7/18 H02K16/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

H02K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 137 203 A (JERMAKIAN JOEL B [US] ET AL) 24 October 2000 (2000-10-24) cited in the application column 8, lines 41-60; figures 1,5,7,14 column 10, lines 12-17 column 11, lines 15-25 column 13, lines 20,50-65 column 14, lines 3-7,34-36,60-64 column 15, lines 43-48 column 18, lines 31-36 column 20, lines 43-49	1,2,5,6
A	US 5 834 872 A (LAMB KARL J [US]) 10 November 1998 (1998-11-10) figures 1-3	1



Further documents are listed in the continuation of Box C.



See patent family annex.

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Date of the actual completion of the international search

29 October 2009

Date of mailing of the international search report

09/11/2009

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INTERNATIONAL SEARCH REPORT

International application No

PCT/IB2009/050219

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2004/073143 A (RANDALL FAMILY TRUST [ZA]; RANDALL HUGH [ZA]) 26 August 2004 (2004-08-26) figures 1,2,4,6,10 -----	1-4
P,A	JP 2008 048519 A (NISSAN MOTOR) 28 February 2008 (2008-02-28) abstract; figures 24-27 -----	1-4,10, 13
A	BE 867 436 A2 (CLIPPEL LUCIEN DE) 18 September 1978 (1978-09-18) cited in the application figures 1-4 -----	1-4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/IB2009/050219

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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