



- (51) International Patent Classification:  
*H02K 7/09* (2006.01)
- (21) International Application Number:  
PCT/GB2014/051993
- (22) International Filing Date:  
1 July 2014 (01.07.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
1311852.6 2 July 2013 (02.07.2013) GB
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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, BN, BR, BW, BY, BZ, CA, CH, CL, 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, IR, IS, JP, KE, KG, 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, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, 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, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, 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, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: REDUCING BEARING FORCES IN AN ELECTRICAL MACHINE

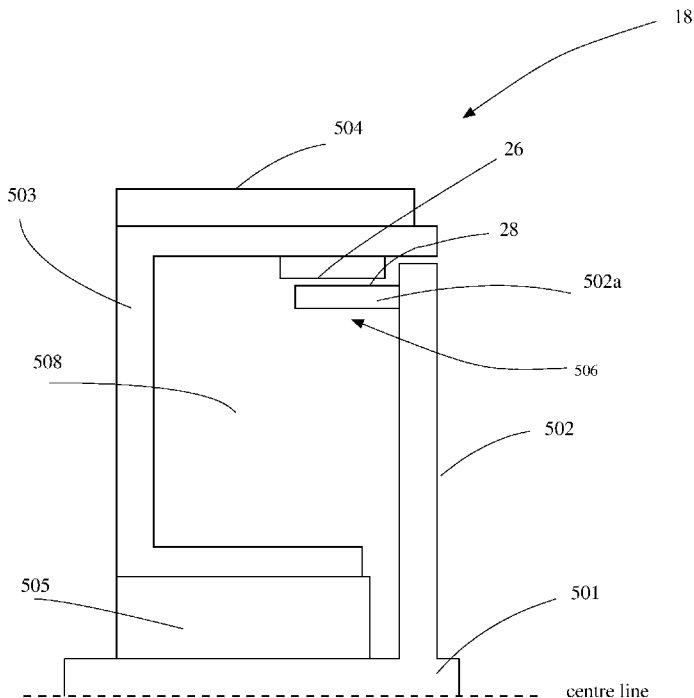


Figure 5(a):

(57) Abstract: A magnetic drive has a prime mover, having a first magnet array on a first surface thereof, and a rotor, having a second magnet array on an outer surface thereof. The outer surface of the rotor is located adjacent to the first surface of the prime mover such that movement of the prime mover causes rotation of the rotor about an axis of rotation. A support member has a shaft for defining the axis of rotation of the rotor, and having a third magnet array, and the third magnet array cooperates with a fourth magnet array on the rotor to form a magnetic bearing to resist forces on the rotor acting along the axis of rotation thereof.

WO 2015/001331 A3



**Published:**

**(88) Date of publication of the international search report:**

11 September 2015

- *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))*

**INTERNATIONAL SEARCH REPORT**

International application No  
PCT/GB2014/051993

A. CLASSIFICATION OF SUBJECT MATTER  
INV. H02K7/09  
ADD.  
  
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 practicable, 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.
Y	US 2013/126669 A1 (HAMANN JENS [DE] ET AL) 23 May 2013 (2013-05-23)	1-11
A	paragraphs [0026], [0036], [0037]; figure 2	12-18
Y	----- US 5 856 719 A (DE ARMAS JORGE [US]) 5 January 1999 (1999-01-05)	1,5,6, 10,11
A	figure 4	12-18
Y	----- US 2013/033136 A1 (MCMULLEN PATRICK T [US]) 7 February 2013 (2013-02-07)	2-4,7-9
A	paragraphs [0014], [0023]; figure 1a	12-18

Further documents are listed in the continuation of Box C.

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- "&" document member of the same patent family

Date of the actual completion of the international search  
  
24 June 2015

Date of mailing of the international search report  
  
06/07/2015

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/GB2014/051993

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