



## PCT

**(10) International Publication Number**  
**WO 2008/143872 A3**

**(43) International Publication Date**  
**27 November 2008 (27.11.2008)**

**(51) International Patent Classification:**

<i>H02K 5/00</i> (2006.01)	<i>H02K 5/12</i> (2006.01)
<i>H02K 5/10</i> (2006.01)	<i>H02K 11/00</i> (2006.01)

**(21) International Application Number:**

PCT/US2008/006149

**(22) International Filing Date:** 14 May 2008 (14.05.2008)

(25) Filing Language: English

(26) **Publication Language:** English

**(30) Priority Data:**

11/804,212 17 May 2007 (17.05.2007) US

**(71) Applicant (for all designated States except US): VISION GLOBAL TRADING, INC.** [US/US]; 3512-b Sixth Avenue, Se, Decatur, AL 35603 (US).

(72) Inventors; and

(75) **Inventors/Applicants (for US only): CHAOHA, Wang** [CN/CN]; 19-2 Renmin, Xinjianyuan, Room 402, Changzhou City, Jiangsu Provence (CN). **BOS, Jan** [NL/NL]; 217 Xing Ming Street, Suzhou, Jiangsu Provence (CN). **MINOR, Danny, R.** [US/US]; 166 Riverview Drive, Decatur, AL 35603 (US).

(74) **Agents:** **KOBLER, George, P.** et al.; Lanier Ford Shaver & Payne P.C., P.O. Box 2087, Huntsville, AL 35804-2087 (US).

(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, 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*

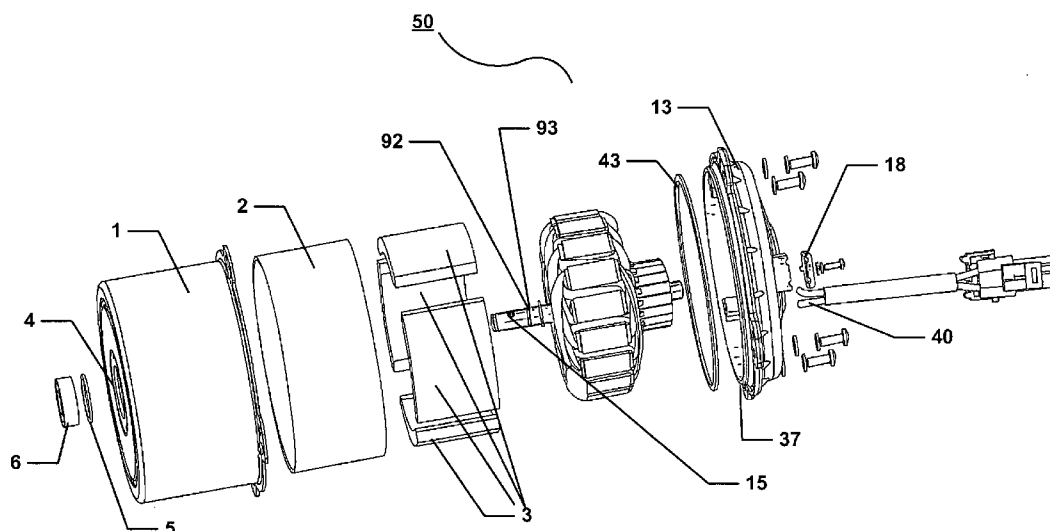
*kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MT, NL, NO, PL, PT, RO, SE, SI, SK, TR), OAPI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

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

**(54) Title:** WATER-RESISTANT ELECTRIC MOTOR



**Fig. 1**

**(57) Abstract:** A water-resistant electric motor includes a housing for receiving an electric motor armature therein and an end cap for closing an open end of the housing. The housing includes a drive shaft aperture within a cylindrical recess that receives a journal bearing and a ring seal. The end cap includes a wire access hole for receiving power supply wires. Surrounding the wire access hole is a ridge with cut-outs. A wire cover plate is seated on top of the ridge and includes cut-outs that correspond to the cut-outs in the ridge so that the power supply wires are accommodated therein when the cover plate is secured to the ridge. The wire access hole includes a grommet to seal the hole.



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

15 January 2009

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US08/06149

## A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H02K 5/00**( 2006.01),**5/10**( 2006.01),**5/12**( 2006.01),**11/00**( 2006.01)

USPC: 310/89,88,87,71

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)

U.S. : 310/89, 88, 87, 71

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)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5, 767,596 A (STARK et al.) 16 June 1998, see figs. 1-4.	1-10
Y	US 5,872,414 A (IIJIMA) 16 February 1999, see figs 1-2; col. 4, line 31; col. 1, lines 33-35.	1-10
Y	US 6,674,199 B2 (LONG) 06 January 2004, see fig. 2; col. 1, lines 65-66.	1-10

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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

03 October 2008 (03.10.2008)

Date of mailing of the international search report

**06 NOV 2008**

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (571) 273-3201

Authorized officer

TOM DUNN

Telephone No. 571-272-1700