(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
11 January 2007 (11.01.2007)

PCT

(10) International Publication Number
WO 2007/004009 A2

(51) International Patent Classification:
*H02K 1/27* (2006.01)

(21) International Application Number:
PCT/IB2006/001764

(22) International Filing Date: 28 June 2006 (28.06.2006)

(25) Filing Language: Italian

(26) Publication Language: English

(30) Priority Data:
BO2005A000437 30 June 2005 (30.06.2005) IT

(71) Applicant *(for all designated States except US)*: **SPAL AUTOMOTIVE S.R.L.** [IT/IT]; Via per Carpi, 26/B, I-42015 Correggio (IT).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **SPAGGIARI, Alessandro** [IT/IT]; Via Leonardo Da Vinci, 8, I-42015 Correggio (IT).

(74) Agents: **BIANCIARDI, Ezio** et al.; Bugnion S.p.A., Via Goito, 18, I-40126 Bologna (IT).

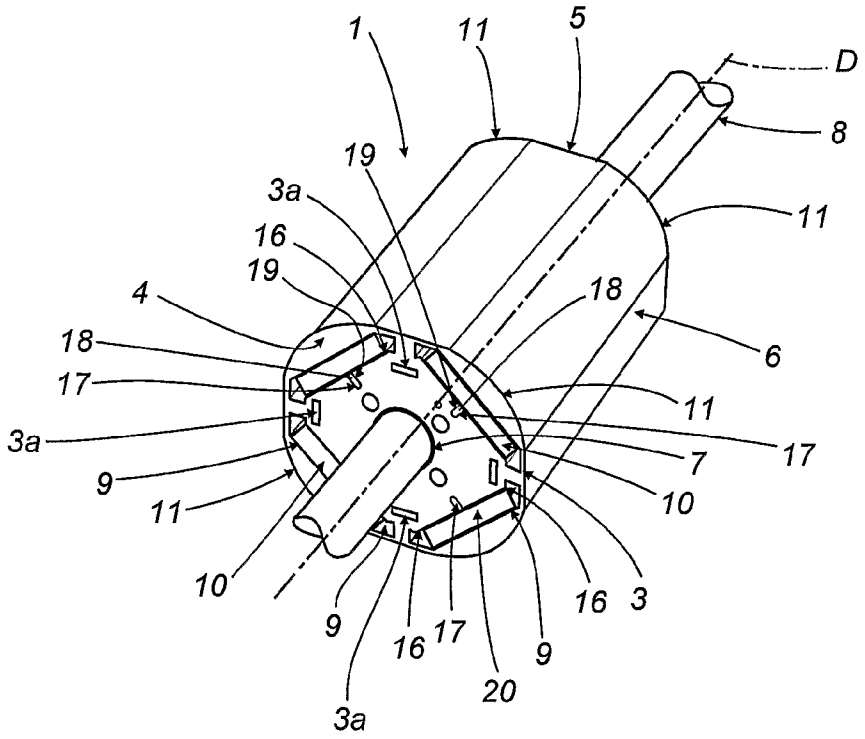
(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, HU, IE, IS, IT, LT, LU, LV, MC, NL, 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:**
— *without international search report and to be republished upon receipt of that report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) **Title:** A ROTOR FOR AN ELECTRICAL MACHINE




(57) **Abstract:** A rotor (1) for an electric motor with permanent magnets (10) has a principal axis (D) , comprises a laminated core (2) delimited by a first and a second end wall (4, 5) and by a lateral surface (6) and has a hole (7) for coupling to a motor shaft (8) and a plurality of longitudinal slots (9) for housing the magnets (10) ; the rotor also comprises positioning devices (20) for stabilizing the magnets (10) in the slots (9) .

WO 2007/004009 A2