

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
25 January 2001 (25.01.2001)

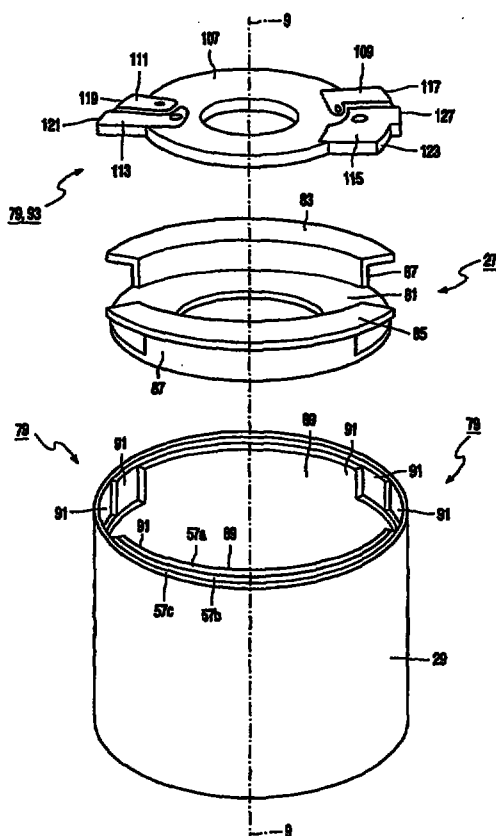
PCT

(10) International Publication Number
WO 01/06618 A1

- (51) International Patent Classification?: H02K 3/26, 5/22 (71) Applicant (for DE only): PHILIPS CORPORATE INTELLECTUAL PROPERTY GMBH [DE/DE]; Habsburgerallee 11, D-52066 Aachen (DE).
- (21) International Application Number: PCT/EP00/06678
- (22) International Filing Date: 13 July 2000 (13.07.2000) (72) Inventor: ELFERICH, Reinhold; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (25) Filing Language: English (74) Agent: WOLFS, Marc, J., M.; Internationaal Octrooibureau B.V., Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (26) Publication Language: English
- (30) Priority Data:
199 33 369.6 20 July 1999 (20.07.1999) DE (81) Designated States (national): CN, JP, KR, SG.
00201476.9 25 April 2000 (25.04.2000) EP (84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).
- (71) Applicant (for AT, BE, CH, CN, CY, DK, ES, FI, FR, GB, GR, IE, IT, JP, KR, LU, MC, NL, PT, SE, SG only): KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- Published:
— With international search report.

[Continued on next page]

(54) Title: ELECTRIC MOTOR WITH CONNECTOR ELEMENT ON FOIL-SHAPED INSULATING SUBSTRATE



(57) Abstract: An electric motor (19) comprises a first part (21) and a second part (23) which are rotatable with respect to each other about an axis of rotation (9). The first part comprises a foil-shaped insulating substrate (51) on which a plurality of series-connected spiral-shaped patterns (67, 67', 69, 69', 71, 71') of conductor tracks are provided. Said substrate is bent so as to form a circular-cylindrical body (29), which extends, seen in a direction parallel to the axis of rotation, between a first and a second imaginary end surface (59, 61), and which is mounted on a carrier (27) near the first end surface (59). The second part comprises a permanent magnet unit (73) for generating a magnetic field at the location of the conductor tracks. The first part is provided with connector means (79) for connecting the conductor tracks to an electrical energy source. According to the invention, the connector means (79) comprise a first connector element (91), which is provided on the substrate (51) between the first and the second end surfaces (59, 61) near the first end surface (59), and a second connector element (93), which is provided on the carrier (27) and is electrically connected to the first connector element. In a preferred embodiment, the first connector element comprises a number of additional conductor tracks (95, 97, 99, 101, 103, 105) which are provided on the substrate and extend substantially parallel to the first end surface. Thus, a simple and robust construction of the connector means is provided which is effectively protected against damage, which could be caused by inaccurate handling forces and movements during the manufacturing process of the motor. An electric motor (19) in accordance with the invention is used in a data storage unit (1) in accordance with the invention.

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— *Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.*

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