

PCTWORLD INTELLECTUAL PROPERTY ORGANIZATION
International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶: H02K 21/14, 15/02	A1	(11) International Publication Number: WO 00/01058 (43) International Publication Date: 6 January 2000 (06.01.00)
(21) International Application Number: PCT/US99/14391 (22) International Filing Date: 25 June 1999 (25.06.99) (30) Priority Data: 60/090,773 26 June 1998 (26.06.98) US (71) Applicant (for all designated States except US): GENERAL ELECTRIC COMPANY [US/US]; One River Road, Schenectady, NY 12345 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): SABAN, Daniel, Michael [US/US]; 1220 W. Foster Parkway, Fort Wayne, IN 46807 (US). STEPHENS, Charles, Michael [US/US]; 3996 Rynex Corners Road, Pattersonville, NY 12137 (US). KLIMAN, Gerald, Burt [US/US]; 2263 Sweetbrier Road, Schenectady, NY 12309 (US). (74) Agents: BEULICK, John, S. et al.; Armstrong Teasdale LLP, Suite 2600, One Metropolitan Square, St. Louis, MO 63102-2740 (US).		(81) Designated States: AL, AM, AT, AT (Utility model), AU (Petty patent), AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), EE, EE (Utility model), ES, FI, FI (Utility model), GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>
(54) Title: ROTORS UTILIZING A STEPPED SKEW (57) Abstract Divided magnet rotors R having a stepped skew rather than a helical skew are described. The stepped skew enables the use of straight magnet sections (44) that can be inserted into the rotor core notches (38) thereby eliminating the need to produce a helix from the rotor cage. The stepped skew is effective in decoupling stator slot order harmonics. In addition, the stepped skew rotor R includes, in some embodiments, open slots (22) so that the rotor is not subject to rotor bridge saturation. *G00002* *162162*		