



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : H01F 36/00, H02K 3/40, H01F 6/04		A1	(11) International Publication Number: WO 99/28929
			(43) International Publication Date: 10 June 1999 (10.06.99)
(21) International Application Number: PCT/EP98/07736		(81) Designated States: AL, AM, AT, AT (Utility model), AU, 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, GD, GE, GH, GM, HR, 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, 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).	
(22) International Filing Date: 30 November 1998 (30.11.98)			
(30) Priority Data: 9725312.4 28 November 1997 (28.11.97) GB			
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(54) Title: A POWER TRANSFORMER

(57) Abstract

A power transformer (1) having at least one electrical winding comprising electrical conducting means (13-15), cooling means for cooling the electrical conducting means to improve its electrical conductivity, and surrounding electrically insulating means (20-22) comprises an inner layer (20) of semiconducting material in electrical contact with said electrical conducting means, an outer layer (21) of semiconducting material at a controlled electrical potential along its length and an intermediate layer (22) of electrically insulating material between the said inner and outer layers (20, 21).

