

SG 9700279-4



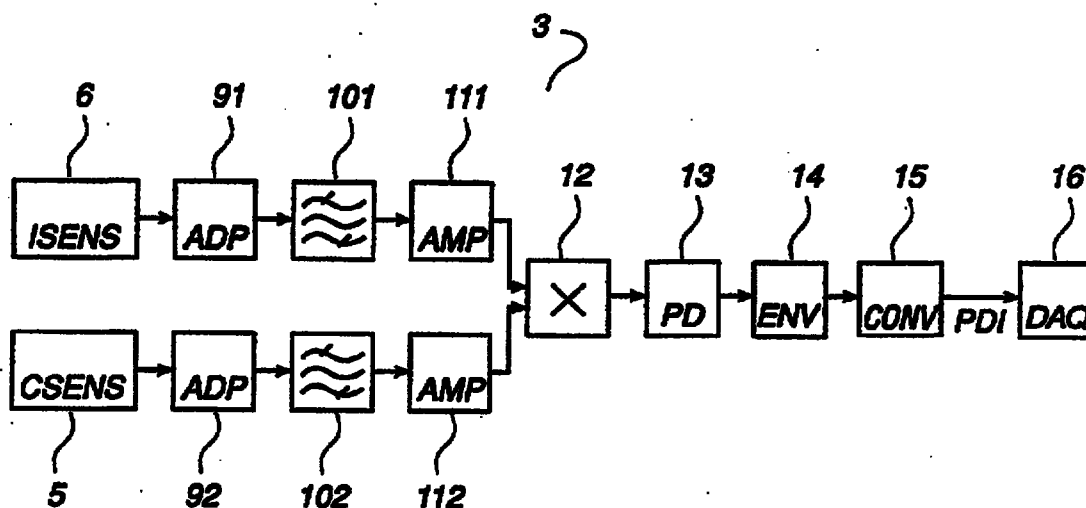
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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : G01R 31/02, 31/34		A1	(11) International Publication Number: WO 96/35128
			(43) International Publication Date: 7 November 1996 (07.11.96)
(21) International Application Number: PCT/SE96/00558 (22) International Filing Date: 29 April 1996 (29.04.96) (30) Priority Data: 9501664-8 2 May 1995 (02.05.95) SE (71) Applicant (for all designated States except US): ABB RESEARCH LTD. [CH/CH]; P.O. Box 8131, CH-8050 Zürich (CH). (72) Inventors; and (75) Inventors/Applicants (for US only): ERIKSSON, Thomas [SE/SE]; Skolgatan 9B, S-753 12 Uppsala (SE). LEIJON, Mats [SE/SE]; Bangatan 8, S-735 37 Surahammar (SE). (74) Agents: LUNDBLAD VANNESJÖ, Katarina et al.; Asea Brown Boveri AB, Patent, S-721 78 Västerås (SE).			(81) Designated States: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, ARIPO patent (KE, LS, MW, SD, SZ, UG), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, 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 the receipt of amendments. In English translation (filed in Swedish).

(54) Title: MONITORING OF INTERNAL PARTIAL DISCHARGES ON A POWER TRANSFORMER



(57) Abstract

In a method for monitoring of partial discharges in an electric power transformer (1) under normal operating conditions, the magnetic field at a high-voltage bushing (2) on the power transformer is sensed with an inductive sensor (6) comprising at least one coil (6a, 6b) arranged at the bushing, and the electric field at the bushing is sensed with a capacitive sensor (5). The output signals from said sensors are supplied to a signal processing unit (3) in which each one of the output signals is filtered in a separate bandpass filter (101, 102), whereupon the filtered output signals from said sensors are multiplied by each other. An output signal (PDI) from the signal processing unit is formed in dependence on the result of said multiplication for the purpose of detecting internal partial discharges in the transformer.