

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
20 April 2006 (20.04.2006)

PCT

(10) International Publication Number
WO 2006/040719 A1

(51) International Patent Classification:

G01R 33/06 (2006.01) *G01R 33/09* (2006.01)
G01R 33/07 (2006.01) *G01R 15/20* (2006.01)

(21) International Application Number:

PCT/IB2005/053306

(22) International Filing Date: 10 October 2005 (10.10.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

04104963.6 11 October 2004 (11.10.2004) EP

(71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL];
Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PHAN LE, Kim** [VN/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **RUIGROK, Jaap** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(74) Agents: **ELEVELD, Koop, J.** et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(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, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, 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, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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).

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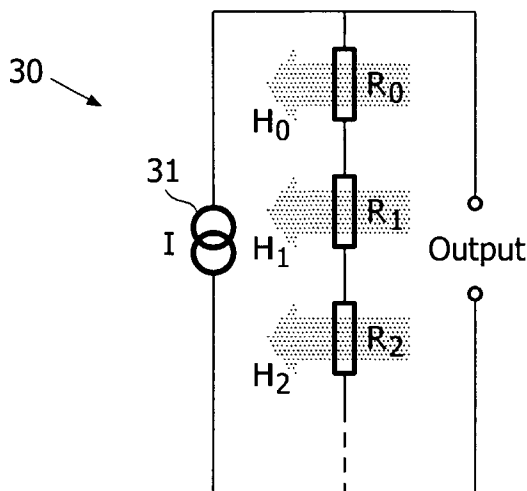
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Published:

— with international search report
— 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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(54) Title: NON-LINEAR MAGNETIC FIELD SENSORS AND CURRENT SENSORS



(57) Abstract: The invention provides a magnetic field sensor or current sensor which can exhibit a substantially linear relationship between the sensor signal and the logarithm of the magnetic field or current. The sensor may be used as a wide dynamic range sensor which can offer a constant relative sensitivity and a uniform SNR over several decades. The design of the sensor device may be implemented in discrete magnetic field sensors or current sensors as well as in integrated current sensors in ICs comprising MRAM modules.

WO 2006/040719 A1