

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number
WO 2004/051846 A3

(51) International Patent Classification⁷: **H03F 1/30**,
H03G 1/04, 3/30

(21) International Application Number:
PCT/CA2003/001884

(22) International Filing Date: 2 December 2003 (02.12.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/430,955 4 December 2002 (04.12.2002) US

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(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (*regional*): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

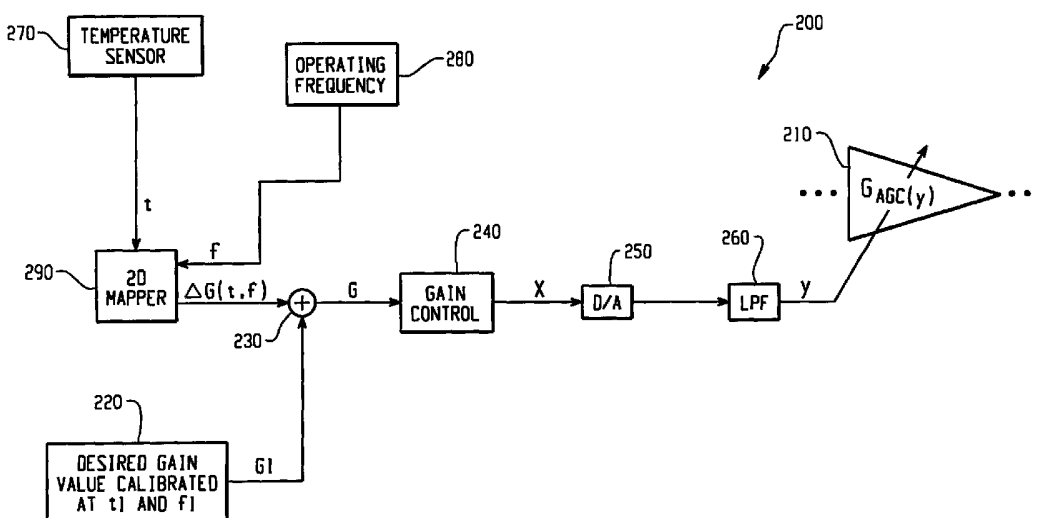
Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
28 October 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: GAIN COMPENSATION OVER TEMPERATURE AND FREQUENCY VARIATIONS IN WIRELESS TRANSCEIVERS



(57) Abstract: Systems and methods are provided for controlling gain compensation over temperature and frequency variations. A variable amplifier may be used to receive a control signal and an input signal. The variable amplifier may be operable to apply a gain to the input signal to generate an output signal, wherein the gain is a function of the control signal. A summation module may be used to combine a gain reference signal and a gain variation signal to generate the control signal. The gain reference signal may be calibrated at a reference temperature and a reference frequency. A gain calibration module may be used to output the gain variation signal as a function of both a current operating temperature and a current operating frequency.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01884

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H03F1/30 H03G1/04 H03G3/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03G H03F H03H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	US 6 115 587 A (KIM YOUNG-KI) 5 September 2000 (2000-09-05) column 3, line 20 - line 55 column 4, line 18 - column 6, line 12; figures 1-3 -----	8,9,11 1,2,4,5, 7
X	EP 0 396 347 A (NIPPON ELECTRIC CO) 7 November 1990 (1990-11-07) column 4, line 27 - column 8, line 22; figures 3-5 -----	1,2,4,5, 7-9,11
X	US 6 418 301 B1 (HASSAINE NACER ET AL) 9 July 2002 (2002-07-09) column 1, line 65 - column 2, line 57 -----	1,2,4,5, 8,9,11

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☒ Patent family members are listed in annex.

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- *&* document member of the same patent family

Date of the actual completion of the international search

24 August 2004

Date of mailing of the international search report

01/09/2004

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/01884

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