

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 June 2003 (05.06.2003)

PCT

(10) International Publication Number
WO 03/047002 A3

(51) International Patent Classification⁷: **G01J 5/10**, 5/34

(21) International Application Number: PCT/JP02/12352

(22) International Filing Date:
27 November 2002 (27.11.2002)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2001-361653 27 November 2001 (27.11.2001) JP

(71) Applicant (for all designated States except US): **MATSUSHITA ELECTRIC WORKS, LTD.** [JP/JP]; 1048, Oaza-Kadoma, Kadoma-shi, Osaka 571-8686 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **HATATANI, Teruki** [JP/JP]; c/o MATSUSHITA ELECTRIC WORKS, LTD.,

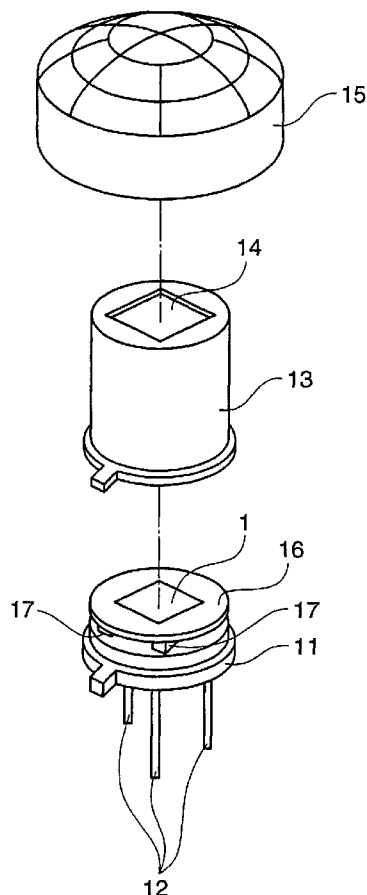
1048, Oaza-Kadoma, Kadoma-shi, Osaka 571-8686 (JP). **FUKUI, Suguru** [JP/JP]; c/o MATSUSHITA ELECTRIC WORKS, LTD., 1048, Oaza-Kadoma, Kadoma-shi, Osaka 571-8686 (JP). **TAKADA, Yuji** [JP/JP]; c/o MATSUSHITA ELECTRIC WORKS, LTD., 1048, Oaza-Kadoma, Kadoma-shi, Osaka 571-8686 (JP).

(74) Agents: **KOTANI, Etsuji** et al.; Nichimen Building 2nd Floor, 2-2, Nakanoshima 2-chome, Kita-ku, Osaka-shi, Osaka 530-0005 (JP).

(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, 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, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: AN INFRARED DETECTING CIRCUIT AND AN INFRARED DETECTOR



(57) Abstract: An infrared detecting circuit is provided with a current-to-voltage converting circuit including a capacitor connected with an inverting input terminal and an output terminal of an operational amplifier and a resistance circuit element connected in parallel with the capacitor, an inverting amplifying circuit connected with an output side of the current-to-voltage converting circuit, a band-pass filter circuit connected with an output side of the voltage amplifying circuit, and an output circuit connected with an output side of the band-pass filter circuit. The infrared detecting circuit and an infrared detector including this circuit can be miniaturized.

WO 03/047002 A3



(84) Designated States (regional): ARIPO patent (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, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(88) Date of publication of the international search report:
18 September 2003

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.

Published:

— *with international search report*