

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
18 January 2007 (18.01.2007)

PCT

(10) International Publication Number
WO 2007/007309 A1

(51) International Patent Classification:

G01S 13/88 (2006.01) G01S 7/02 (2006.01)
G01S 13/87 (2006.01) G01S 7/42 (2006.01)
G01S 13/02 (2006.01) G01V 3/12 (2006.01)
G01S 7/41 (2006.01) G01N 22/00 (2006.01)

(21) International Application Number:

PCT/IL2005/000748

(22) International Filing Date: 14 July 2005 (14.07.2005)

(25) Filing Language: English

(26) Publication Language: English

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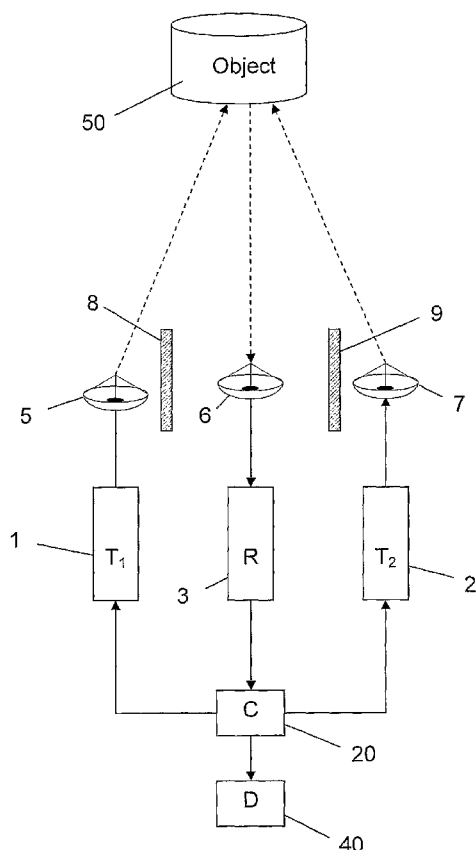
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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, 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,

[Continued on next page]

(54) Title: RADAR SYSTEM AND METHOD FOR LOCATING AND IDENTIFYING OBJECTS BY THEIR NON-LINEAR ECHO SIGNALS

(57) Abstract: The invention relates to a harmonic radar system which comprises: (a) at least two transmitting units for simultaneously, and in synchronization transmitting electromagnetic radiation in distinct frequencies $f_1, f_2, f_3 \dots$ towards a space of interest; and (b) at least one receiving unit tuned to a frequency of $nf_1, mf_2, qf_3 \dots$, wherein $n, m, q \dots$ being integers not equal to zero, for receiving a non-linear response of said radiation from objects located within the said space of interest.



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).

Published:

— with international search report

(48) Date of publication of this corrected version:

16 August 2007

(15) Information about Correction:

see PCT Gazette No. 33/2007 of 16 August 2007

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.