

CORRECTED VERSION

(19) World Intellectual Property Organization
International Bureau(43) International Publication Date
15 March 2007 (15.03.2007)

PCT

(10) International Publication Number
WO 2007/029089 A1(51) International Patent Classification:
B60K 28/16 (2006.01) **G08G 1/16** (2006.01)(21) International Application Number:
PCT/IB2006/002422(22) International Filing Date:
4 September 2006 (04.09.2006)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2005-257181 5 September 2005 (05.09.2005) JP(71) Applicant (for all designated States except US): **TOYOTA JIDOSHA KABUSHIKI KAISHA** [JP/JP]; 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 (JP).

(72) Inventors; and

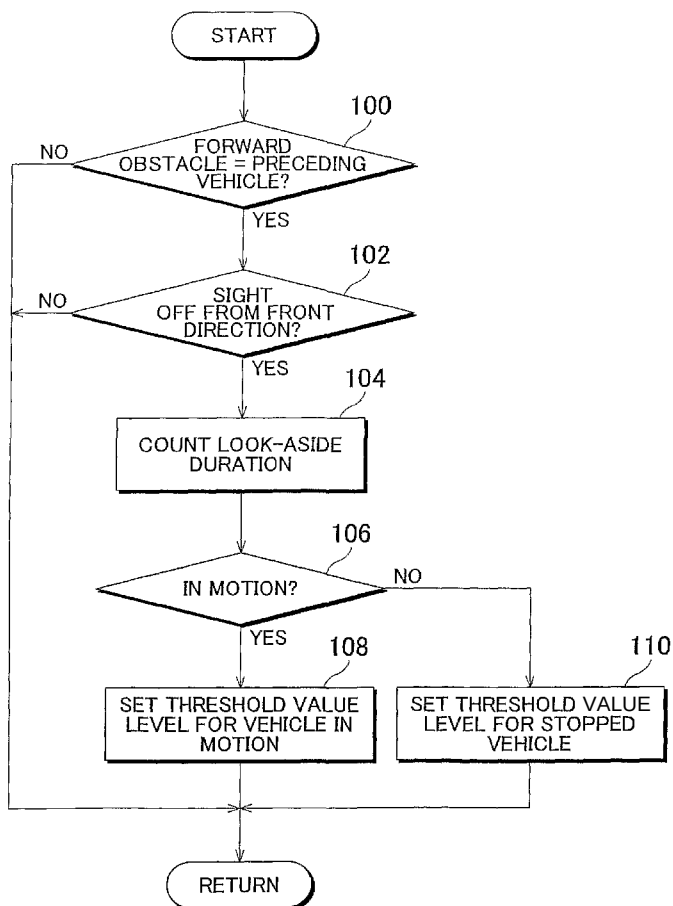
(75) Inventors/Applicants (for US only): **UOZUMI, Shigeyasu** [JP/JP]; c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 (JP).**USAMI, Masayuki** [JP/JP]; c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 (JP). **OHUE, Kenichi** [JP/JP]; c/o Toyota Jidosha Kabushiki Kaisha, 1, Toyota-cho, Toyota-shi, Aichi-ken 471-8571 (JP).

(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, HN, HR, HU, ID, IL, IN, IS, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, 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: VEHICLE-MOUNTED ALARM APPARATUS AND METHOD



(57) Abstract: The alarming is performed after the possibility of collision of a forward obstacle reaches a reference threshold value level if the vehicle driver's line of sight is in a front direction, and the alarming is performed after the possibility of collision with the forward obstacle reaches a threshold value level that is lower than the reference threshold value level if the vehicle driver's line of sight is not in the front direction. Then, the threshold value level is changed in accordance with the duration of a state where the vehicle driver's line of sight is not in the front direction. Then, the amount of change is made different between a case where a preceding vehicle as the forward obstacle is in a moving state and a case where the preceding vehicle is in a stopped state, with respect to the same set of time.

WO 2007/029089 A1



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:

18 May 2007

(15) Information about Correction:

see PCT Gazette No. 20/2007 of 18 May 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.