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- (71) Applicant (for all designated States except US): **RAY-THEON COMPANY** [US/US]; 870 Winter Street, Waltham, Massachusetts 02451-1449 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **GUREVICH, Marina** [US/US]; 5862 Raphael Drive, Huntington Beach, California 92649 (US). **HARDEN, Deanna K.** [US/US]; 15487 Hoover Lane, Fontana, California 92336 (US).
- (74) Agent: **SCHWEGMAN, LUNDBERG & WOESSNER, P.A.**; P.O. Box 2938, Minneapolis, MN 55402 (US).
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DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

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**Declarations under Rule 4.17:**

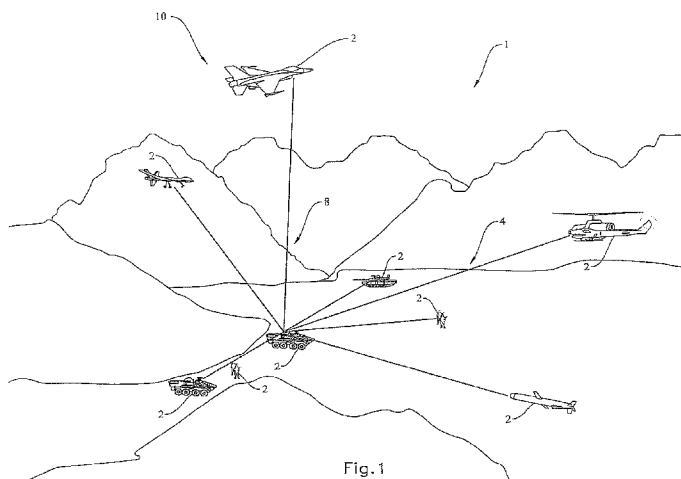
— of inventorship (Rule 4.17(iv))

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(54) Title: RADAR ACTIVATION MULTIPLE ACCESS SYSTEM AND METHOD



(57) Abstract: A radar activation multiple access system and method is provided that includes a plurality of radar participant nodes wirelessly connected and forming a radar network and a multiple access unit in communication with the radar network. The multiple access unit includes a scheduler component, a synch component, a priority component and a radar activation component. The scheduler component is configured to schedule a period of operation having a plurality of time divisions within the period of operation. The synch component is configured to synchronize the radar participant nodes within the period of operation. The priority component is configured to assign a priority to individual radar participant nodes in the radar network. The radar activation component is communicatively connected to the radar network and configured to determine a contentious state at a time division in the period of operation. The radar activation component instructs individual nodes to assume the role of transmitter or receiver based on the assigned priority.



**A. CLASSIFICATION OF SUBJECT MATTER****G01S 13/06(2006.01)i**

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)

G01S 13/06; G01S 13/00; H04Q 7/00; G01S 13/92; G06F 3/00; H01Q 21/00; H04B 15/00; G01S 7/00

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

Korean utility models and applications for utility models

Japanese utility models and applications for utility models

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

eKOMPASS(KIPO internal) &amp; Keywords: radar, multiple access, network, schedule, synchronize, priority

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 2010-088133 A1 (THE BOEING COMPANY et al.) 05 August 2010 See abstract, claim 19 and figure 1	1-13
A	WO 2009-140143 A1 (COLORADO STATE UNIVERSITY RESEARCH FOUNDATION et al.) 19 November 2009 See abstract, claims 1, 23 and figures 1-3	1-13
A	US 2008-0143587 A1 (JOHNSON DAVID ANTONY) 19 June 2008 See abstract, claim 1 and figure 2	1-13
A	US 2002-0093956 A1 (MICHAEL H. GURIN) 18 July 2002 See abstract, claim 3 and figure 2	1-13
A	US 2007-0136496 A1 (HENDEL; MATTHEW D. et al) 14 June 2007 See abstract and claim 1	1-13

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

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Korean Intellectual Property Office  
Government Complex-Daejeon, 189 Cheongsa-ro,  
Seo-gu, Daejeon 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

LEE, HYEON HONG

Telephone No. 82-42-481-8527



**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International application No.

**PCT/US2011/049437**

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
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