



- (51) **International Patent Classification:**
H04B 7/24 (2006.01) *H04W 92/10* (2009.01)
- (21) **International Application Number:**
PCT/US2011/064607
- (22) **International Filing Date:**
13 December 2011 (13.12.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/422,559 13 December 2010 (13.12.2010) US
13/323,024 12 December 2011 (12.12.2011) US
- (71) **Applicant (for all designated States except US):** 3MET-ERS LLC [US/US]; 312 N 49th Street, Seattle, Washington 98103 (US).
- (72) **Inventor; and**
- (75) **Inventor/Applicant (for US only):** MASSENA, Jay [US/US]; 4306 3rd Ave NW, Seattle, Washington 98107 (US).
- (74) **Agents:** KAMLAY, Aaron et al.; 1629 K Street, NW, Suite 300, Washington, District of Columbia 20006 (US).
- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ,

CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, 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, RW, 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.

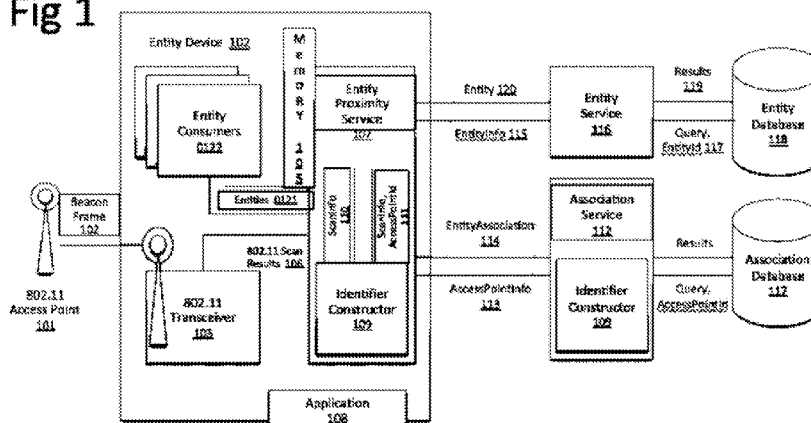
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))

- (88) **Date of publication of the international search report:**
16 August 2012

(54) **Title:** ENTITY IDENTIFICATION BASED ON PROXIMITY TO ACCESS POINTS

Fig 1

(57) **Abstract:** Persons, places, events, things, concepts and services can be discovered, represented and identified based on proximity to network access points. The network access point can transmit data elements that can be used to construct an identifier. The identifier can be used to discover, identify and interact with entities based on proximity to one or more access point transmitters. One or more transmitters can represent one or more entities. Applications and other software on a device such as a mobile platform can include features that leverage information relating to the proximity and the identification of the entity or entities.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2011/064607**A. CLASSIFICATION OF SUBJECT MATTER****H04B 7/24(2006.01)i, H04W 92/10(2009.01)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)

H04B 7/24; H04Q 7/24; H04Q 7/20

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) & Keywords: access point, identifier, entity, signal strength, RSSI, association, server, client, and similar terms.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2006-0046709 A1 (J. C. KRUMM et al.) 02 March 2006	1-6, 12-18, 22
A	See abstract; figure 2; paragraphs [41], [43], [44], [46], [53], [54], [56], [57].	7-11, 19-21, 23
A	US 2007-0211673 A1 (A. ANANTHA) 13 September 2007	1-23
A	See abstract; figures 1B, 3, 5; paragraphs [23], [48]-[53].	
A	US 2010-0069086 A1 (E. G. AHLIN) 18 March 2010	1-23
A	See abstract; figures 1, 3, 8; paragraphs [31], [33]-[35].	
A	US 2003-0104820 A1 (D. P. GREEN et al.) 05 June 2003	1-23
A	See abstract; figures 1-3; paragraphs [58]-[60].	

☐ 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

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"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

"&" document member of the same patent family

Date of the actual completion of the international search

29 JUNE 2012 (29.06.2012)

Date of mailing of the international search report

29 JUNE 2012 (29.06.2012)

Name and mailing address of the ISA/KR

Korean Intellectual Property Office
189 Cheongsu-ro, Seo-gu, Daejeon Metropolitan
City, 302-701, Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

Kim Sun Jong

Telephone No. 82-42-481-8260



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2011/064607

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2006-0046709 A1	02.03.2006	CN 101895907 A	24.11.2010
		CN 1715951 A	04.01.2006
		CN 1715951 B	03.08.2011
		CN 1715951 C0	04.01.2006
		EP 1612999 A1	04.01.2006
		JP 2006-010687 A	12.01.2006
		KR 10-1109325 B1	31.01.2012
		KR 20060047806 A	18.05.2006
		US 7509131 B2	24.03.2009
US 2007-0211673 A1	13.09.2007	US 7603130 B2	13.10.2009
US 2010-0069086 A1	18.03.2010	WO 2010-032142 A1	25.03.2010
US 2003-0104820 A1	05.06.2003	US 6879835 B2	12.04.2005