(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 June 2016 (23.06.2016)

WIPO | PCT

(10) International Publication Number
WO 2016/100887 A3

(51) International Patent Classification:
G06K 7/00 (2006.01)

(21) International Application Number:
PCT/US2015/066820

(22) International Filing Date:
18 December 2015 (18.12.2015)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/094,277 19 December 2014 (19.12.2014) US
62/107,149 23 January 2015 (23.01.2015) US

(71) Applicant: **UNIVERSITY OF WASHINGTON** [US/US]; 4311 11th Avenue NE, Suite 500., Seattle, Washington 98105-4608, (US).

(72) Inventors: **REYNOLDS, Matthew S.**; c/o University of Washington, 4311 11th Avenue NE, Suite 500, Seattle, Washington 98105-4608 (US). **ENSWORTH, Joshua F.**; c/o University of Washington, 4311 11th Avenue NE, Suite 500, Seattle, Washington 98105-4608 (US).

(74) Agents: **SPAITH, Jennifer** et al.; Dorsey & Whitney LLP, 701 5th Avenue, Suite 6100, Seattle, WASHINGTON 98104 (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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, 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, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, 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, KM, ML, MR, NE, SN, TD, TG).

Published:

— *with international search report (Art. 21(3))*

(88) Date of publication of the international search report:
18 August 2016

(54) Title: DEVICES AND METHODS FOR BACKSCATTER COMMUNICATION USING ONE OR MORE WIRELESS COMMUNICATION PROTOCOLS

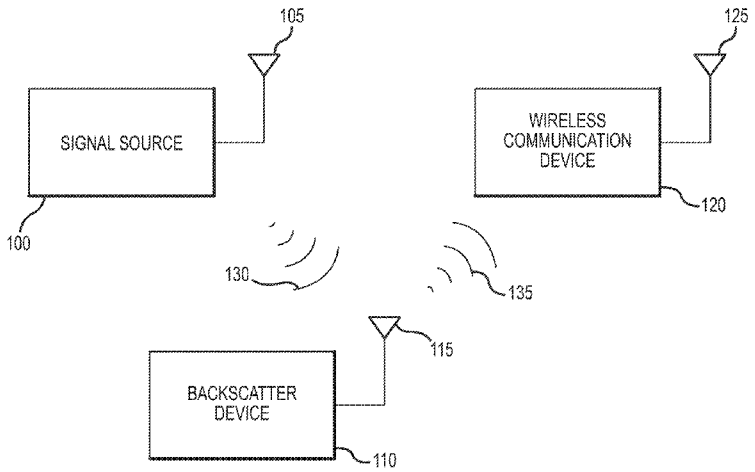


FIG.1

(57) Abstract: Examples described herein include devices and methods that may facilitate interoperability between backscatter devices and wireless communication devices. For example, backscatter devices and methods for backscattering are described that provide a transmitted backscattered signal formatted in accordance with a wireless communication protocol (e.g. Bluetooth Low Energy). Such communication may reduce or eliminate any modifications required to wireless communication devices necessary to receive and decode backscattered signals.

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2015/066820

A. CLASSIFICATION OF SUBJECT MATTER
IPC(8) - G06K 7/00 (2016.01)
CPC - G06K 7/00 (2016.01)
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)
IPC(8) - G01S 13/00, 13/02, 13/75, 13/76, 13/79; G06K 7/00, 7/10; H02J 5/00, 17/00 (2016.01)
CPC - G01S 13/00, 13/02, 13/75, 13/76, 13/79; G06K 7/00, 7/10; H02J 5/00, 17/00 (2016.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
UPC - 340/10.1, 10.34, 10.5; 342/51; 455/73, 106, 517 (Keyword delimited)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
Orbit, Google Patents, Google Scholar, Google, ProQuest.
Search terms used: antenna, frequency, carrier, subcarrier, modulator, bandpass, backscatter, signal.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2008/0225932 A1 (FUKUDA) 18 September 2008 (18.09.2008) entire document	1, 2, 4, 6, 9-16, 18, 20-23
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Y		3, 5, 7, 8, 17, 19
Y	US 2013/0322498 A1 (MAQUIRE) 05 December 2013 (05.12.2013) entire document	3, 17
Y	US 6,084,530 A (PIDWERBETSKY et al) 04 July 2000 (04.07.2000) entire document	5
Y	US 2005/0053024 A1 (FRIEDRICH) 10 March 2005 (10.03.2005) entire document	7, 8, 19
A	US 2008/0136646 A1 (FRIEDRICH) 12 June 2008 (12.06.2008) entire document	1-23
A	US 7,796,016 B2 (FUKUDA) 14 September 2010 (14.09.2010) entire document	1-23
A	US 5,649,296 A (MACLELLAN et al) 15 July 1997 (15.07.1997) entire document	1-23
A	US 6,765,476 B2 (STEELE et al) 20 July 2004 (20.07.2004) entire document	1-23
A	US 7,995,685 B2 (WANG et al) 09 August 2011 (09.08.2011) entire document	1-23

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Date of the actual completion of the international search	Date of mailing of the international search report
10 February 2016	23 FEB 2016
Name and mailing address of the ISA/ Mail Stop PCT, Attn: ISA/US, Commissioner for Patents P.O. Box 1450, Alexandria, VA 22313-1450 Facsimile No. 571-273-8300	Authorized officer Blaine R. Copenheaver PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774

Form PCT/ISA/210 (second sheet) (January 2015)