



(51) International Patent Classification:

H04W 4/00 (2009.01) *H04W* 76/02 (2009.01)
H04W 4/06 (2009.01) *G06K* 17/00 (2006.01)
H04W 12/06 (2009.01)

(21) International Application Number:

PCT/US2017/020985

(22) International Filing Date:

06 March 2017 (06.03.2017)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/303,986 04 March 2016 (04.03.2016) US

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(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, DJ, 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, KH, KN, KP, KR, KW, 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).

(54) Title: MID-RANGE READER INTERACTIONS

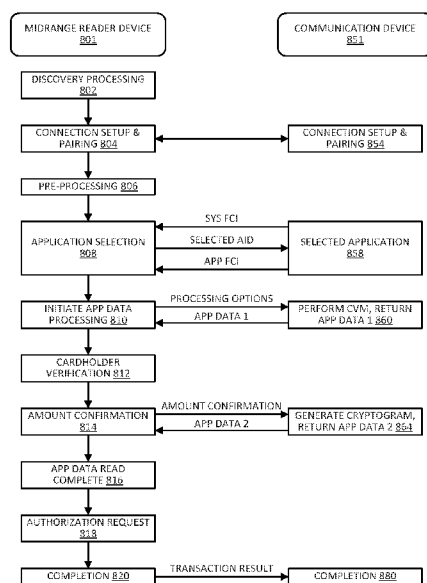


FIG. 8

(57) Abstract: A reader device may include a midrange wireless transceiver, a controller coupled to the midrange wireless transceiver, and a memory coupled to the controller. The memory may store executable code, which when executed by the controller, causes the reader device to implement various operations including maintaining a transaction service attributes database in the memory. The operations may also include broadcasting a beacon including a transaction service indicator at a periodic interval using the midrange wireless transceiver, receiving a connection request from a communication device, and establishing a wireless connection with the communication device. The operations may further include performing an application selection process with the communication device, performing application data processing with the communication device, and performing authorization request processing for the communication device.



Published:

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

(88) Date of publication of the international search report:

26 July 2018 (26.07.2018)

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US2017/020985**A. CLASSIFICATION OF SUBJECT MATTER****H04W 4/00(2009.01)i, H04W 4/06(2009.01)i, H04W 12/06(2009.01)i, H04W 76/02(2009.01)i, G06K 17/00(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)

H04W 4/00; G06Q 20/40; B67D 7/14; H04L 29/02; G07C 9/00; H04W 48/16; G06Q 20/14; G06Q 20/32; G01S 19/48; H04W 4/06; H04W 12/06; H04W 76/02; G06K 17/00

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) & keywords: transaction, reader device, beacon, application, selection, authorization, request, response**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 2016-007445 A1 (GOOGLE INC.) 14 January 2016 See paragraphs [0019]-[00129]; claims 1-27; and figures 1-7.	1, 2, 7-9, 15, 16, 20
Y		3-6, 10-13, 17-19
A		14
Y	US 2015-0051993 A1 (GOLBA LLC) 19 February 2015 See paragraphs [0008], [0034]-[0049]; and claims 1-20.	3-6, 10-13, 17-19
A	US 2015-0106196 A1 (GILBARCO INC.) 16 April 2015 See paragraphs [0026]-[0030], [0038]-[0043]; and claims 1-19.	1-20
A	WO 2016-030893 A2 (ON TRACK INNOVATIONS, LTD.) 03 March 2016 See paragraphs [0084]-[0099]; and claims 1-20.	1-20
A	US 2015-0221149 A1 (RICHARD BREWSTER MAIN et al.) 06 August 2015 See paragraphs [0083]-[0085]; and claims 1-10.	1-20



Further documents are listed in the continuation of Box C.



See patent family annex.

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"&" document member of the same patent family

Date of the actual completion of the international search

15 June 2017 (15.06.2017)

Date of mailing of the international search report

15 June 2017 (15.06.2017)

Name and mailing address of the ISA/KR

International Application Division

Korean Intellectual Property Office

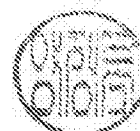
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2017/020985

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US 2015-0221149 A1	06/08/2015	None	