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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
15/413,072	01/23/2017	Saad Ahmad	IDC-11614US03	3243

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EXAMINER
DECKER, CASSANDRA L

ART UNIT	PAPER NUMBER
2466	

NOTIFICATION DATE	DELIVERY MODE
10/31/2019	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary	Application No. 15/413,072	Applicant(s) Ahmad, Saad	
	Examiner CASSANDRA L DECKER	Art Unit 2466	AIA (FITF) Status No

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTHS FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☑ Responsive to communication(s) filed on 15 July 2019.

☐ A declaration(s)/affidavit(s) under **37 CFR 1.130(b)** was/were filed on _____.

2a)☐ This action is **FINAL.** 2b) ☑ This action is non-final.

3)☐ An election was made by the applicant in response to a restriction requirement set forth during the interview on _____; the restriction requirement and election have been incorporated into this action.

4)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims*

5) ☑ Claim(s) 1-2,8-12,14-17 and 19-20 is/are pending in the application.

5a) Of the above claim(s) _____ is/are withdrawn from consideration.

6) ☐ Claim(s) _____ is/are allowed.

7) ☑ Claim(s) 1-2,8-12,14-17 and 19-20 is/are rejected.

8) ☐ Claim(s) _____ is/are objected to.

9) ☐ Claim(s) _____ are subject to restriction and/or election requirement

* If any claims have been determined allowable, you may be eligible to benefit from the **Patent Prosecution Highway** program at a participating intellectual property office for the corresponding application. For more information, please see http://www.uspto.gov/patents/init_events/pph/index.jsp or send an inquiry to **PPHfeedback@uspto.gov.**

Application Papers

10)☐ The specification is objected to by the Examiner.

11)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Certified copies:

a)☐ All b)☐ Some** c)☐ None of the:

1.☐ Certified copies of the priority documents have been received.

2.☐ Certified copies of the priority documents have been received in Application No. _____.

3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

** See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☑ Notice of References Cited (PTO-892)

2) ☑ Information Disclosure Statement(s) (PTO/SB/08a and/or PTO/SB/08b) Paper No(s)/Mail Date

3) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date _____.

4) ☐ Other: _____.

DETAILED ACTION

This Office action is in response to the RCE filed 15 July 2019. Claims 1, 2, 8-12, 14-17, 19, and 20 are pending in this application.

Notice of Pre-AIA or AIA Status

The present application is being examined under the pre-AIA first to invent provisions.

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 15 July 2019 has been entered.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 2, 8, 10, 11, 12, 14-17, 19, and 20 is/are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Yu et al. (US 2011/0098043) in view of Pirzada et al. (US 2006/0073847), Mgrdechian et al. (US 2011/0276412), Hakola et al. (US 2013/0013926), and Fodor et al. (US 2014/0122607).

For Claim 1, Yu teaches a method for establishing a wireless local area network (WLAN) proximity service (ProSe) connectivity between a first WLAN ProSe capable wireless transmit/receive

unit (WTRU) and a second WLAN ProSe capable WTRU (see Figure 6, paragraph 84: WTRUs establish D2D connection), the method comprising:

receiving a request from the first WLAN ProSe capable WTRU to establish a WLAN ProSe connection to the second WLAN ProSe capable WTRU, the request including at least an identification (ID) that is an identification of the second WLAN ProSe capable WTRU (see paragraphs 71, 82, and 89);

transmitting a configuration message with configuration information associated with the second WLAN ProSe capable WTRU, wherein the configuration information includes: a frequency or channel number, and timing information (see paragraphs 74, 83, and 91).

Yu as applied above is not explicit as to, but Pirzada teaches the configuration information including: a WLAN ProSe ID that is associated with at least the second WLAN ProSe capable WTRU (see paragraphs 28, 29: parameters for configuration process; paragraph 24: device to device, 802.11).

Thus it would have been obvious to one of ordinary skill in the art at the time of invention to include parameters as in Pirzada when implementing the method of Yu. One of ordinary skill would have been able to do so with the reasonably predictable result of using known parameters to establish direct links in a known type of network.

The references as applied above are not explicit as to, but Mgrdechian teaches a request including an application layer identification (ID) that is an identification of the second WLAN ProSe capable WTRU (see paragraphs 28, 41: request from first device includes id of second device; paragraphs 45, 50, 75, 107: the id is used at the application layer).

Thus it would have been obvious to one of ordinary skill in the art at the time of invention to include an identifier as in Mgrdechian when requesting to establish the connection as in Yu. The motivation would be to ensure that information needed for desired functionality is provided.

Though Yu teaches the configuration message being at least an implicit indication to establish the WLAN ProSe connection (see paragraphs 74, 83, 91: allocation of resources to be used is at least an

implicit indication to establish a connection using the resources), the references as applied above are not explicit as to, but Hakola teaches the configuration message with configuration information associated with the second WLAN ProSe capable WTRU being an indication to establish the WLAN ProSe connection (see paragraphs 36, 42).

Thus it would have been obvious to one of ordinary skill in the art at the time of invention to provide an indication as in Hakola when switching to a ProSe connection in the system of Yu and Pirzada. The motivation would be to ensure that the ProSe connection is established at an appropriate time.

Though Yu indicates that a security key is provided to the devices (see paragraph 69) and Pirzada teaches that a security key is one of the parameters used (see paragraph 28), the references as applied above are not explicit as to, but Fodor teaches that a security key is provided to the devices for a D2D link (see paragraph 100).

Thus it would have been obvious to one of ordinary skill in the art at the time of invention to provide the key as in Fodor when implementing the method of Yu. The motivation would be to ensure that communications over the D2D link are secure.

For Claim 2, Yu teaches the method, further comprising: determining WLAN ProSe capabilities of the first WLAN ProSe capable WTRU and the second WLAN ProSe capable WTRU (see paragraphs 85, 87 and 95, 97: D2D registration by WTRUs is an indication of capabilities).

For Claims 11 and 16, Yu teaches a method and a first WLAN ProSe capable wireless transmit/receive unit (WTRU), comprising a receiver and transmitter (see paragraph 40) for establishing direct wireless local area network (WLAN) proximity service (ProSe) connectivity with a second WLAN ProSe capable WTRU (see Figure 6, paragraph 84: WTRUs establish D2D connection), the method comprising:

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