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15/413,072	01/23/2017	Saad Ahmad	IDC-2012P00609US01	3243
24374 7590 03/12/2020 VOLPE AND KOENIG, P.C.			EXAMINER	
DEPT. ICC		DECKER, CASSANDRA L		
30 SOUTH 17TH STREET -18TH FLOOR PHILADELPHIA, PA 19103			ART UNIT	PAPER NUMBER
			2466	
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	Application No. 15/413,072	Applicant(s) Ahmad, Saad		
Office Action Summary				
	Examiner CASSANDRA L DECKER	Art Unit 2466	AIA (FITF) Status No	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with	the correspondent	ce address	
A SHORTENED STATUTORY PERIOD FOR REPL DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing adjustment. See 37 CFR 1.704(b).	— 36(a). In no event, however, may a reply will apply and will expire SIX (6) MONTH: e, cause the application to become ABAN	be timely filed after SIX S from the mailing date o DONED (35 U.S.C. § 13	(6) MONTHS from the mailing f this communication.	
Status				
3) $\square$ An election was made by the applicant in res	<b>1.130(b)</b> was/were filed on This action is non-final. sponse to a restriction requi	rement set forth		
on; the restriction requirement and ele 4) Since this application is in condition for allow closed in accordance with the practice under	vance except for formal mat	ters, prosecutior	as to the merits is	
<ul> <li>Disposition of Claims*</li> <li>5) ☑ Claim(s) <u>1-2,8-12,14-17 and 19-20</u> is/a</li> <li>5a) Of the above claim(s) is/are withdue</li> <li>6) □ Claim(s) is/are allowed.</li> <li>7) ☑ Claim(s) <u>1-2,8-12,14-17 and 19-20</u> is/are</li> <li>8) □ Claim(s) is/are objected to.</li> <li>9) □ Claim(s) are subject to restriction a</li> <li>* If any claims have been determined <u>allowable</u>, you may be eleparticipating intellectual property office for the corresponding an <a href="http://www.uspto.gov/patents/init_events/pph/index.jsp">http://www.uspto.gov/patents/init_events/pph/index.jsp</a> or send</li> </ul>	rawn from consideration. rejected. and/or election requirement igible to benefit from the <b>Patent</b> pplication. For more information I an inquiry to <b>PPHfeedback@u</b>	<b>Prosecution High</b> , please see	<b>way</b> program at a	
11) The drawing(s) filed on is/are: a) a Applicant may not request that any objection to the d Replacement drawing sheet(s) including the correction	Irawing(s) be held in abeyance.	See 37 CFR 1.85(a)		
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for forei Certified copies: a) All b) Some** c) None of t	gn priority under 35 U.S.C.			
1. Certified copies of the priority docur		. Annelis etter Nie		
<ul> <li>2. Certified copies of the priority docur</li> <li>3. Copies of the certified copies of the copie</li></ul>	priority documents have be	••		
application from the International Be ** See the attached detailed Office action for a list of the certifi				
Attachment(s)				
1) <b>V</b> Notice of References Cited (PTO-892)	3) 🔲 Interview Sur			
	SB/08b) Paper No(s)/I	viali Liate		

#### **DETAILED ACTION**

This Office action is in response to the amendment filed 31 January 2020. 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.

#### Claim Rejections - 35 USC § 112

The following is a quotation of 35 U.S.C. 112(b): (b) CONCLUSION.—The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the inventor or a joint inventor regards as the invention.

The following is a quotation of 35 U.S.C. 112 (pre-AIA), second paragraph: The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 2, and 8-10 are rejected under 35 U.S.C. 112(b) or 35 U.S.C. 112 (pre-AIA), second

paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter

which the inventor or a joint inventor, or for pre-AIA the applicant regards as the invention.

For Claim 1 (penultimate line), "EPC network" appears to have antecedent basis in the claim.

Remaining claims are rejected as depending from a rejected claim.

#### 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.

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Claims 1, 2, 10-12, 14, 15, 17, and 19 is/are rejected under pre-AIA 35 U.S.C. 103(a) as being unpatentable over Johnsson et al. (US 2014/0036793) in view of Mgrdechian et al. (US 2011/0276412), Fodor et al. (US 2014/0122607), and Yu et al. (US 2011/0098043).

**For Claim 1**, Johnsson teaches a method, performed by a proximity service (ProSe) function operating in an evolved packet core (EPC) network, 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 abstract), the method comprising:

receiving, at the ProSe function, a request from the first WLAN ProSe capable WTRU, for EPC support to establish a WLAN ProSe connection to the second WLAN ProSe capable WTRU, the request including at least an identification of the second WLAN ProSe capable WTRU (see paragraph 30: the second WTRU is identified);

transmitting, by the ProSe function, a configuration message with configuration information associated with the second WLAN ProSe capable WTRU, wherein the configuration information includes: a WLAN ProSe ID that is associated with at least the second WLAN ProSe capable WTRU, and timing information (see paragraphs 33, 34); and

wherein the configuration message with configuration information associated with the second WLAN ProSe capable WTRU is an indication from EPC network to establish the WLAN ProSe connection (see paragraphs 33, 34).

Johnsson as applied above is 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).

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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 Johnsson. The motivation would be to ensure that information needed for desired functionality is provided.

Though Johnsson indicates that security information is obtained (see paragraph 27), 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 Johnsson. The motivation would be to ensure that communications over the D2D link are secure.

The references as applied above are not explicit as to, but Yu teaches that a frequency or channel number is provided (see paragraphs 74, 83, and 91).

Thus it would have been obvious to one of ordinary skill in the art at the time of invention to include channel information as in Yu when implementing the method of Johnsson. The motivation would be to ensure that information needed for desired functionality is provided.

**For Claim 2**, Johnsson further 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 27, 45).

**For Claim 10**, Johnsson further teaches the method, further comprising: receiving address information of the second WLAN ProSe capable WTRU at the first WLAN ProSe capable WTRU (see paragraph 46: first WTRU is informed of other WTRUs).

**For Claims 11 and 16**, Johnsson teaches a method and a first WLAN ProSe capable wireless transmit/receive unit (WTRU), comprising a receiver and transmitter (see paragraphs 53, 54) for establishing direct wireless local area network (WLAN) proximity service (ProSe) connectivity with a second WLAN ProSe capable WTRU (see abstract), the method comprising:

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