

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
OL SECURITY LIMITED LIABILITY COMPANY	10/30/2019

RECEIVING PARTY DATA

Name:	INTELLECTUAL VENTURES ASSETS 130 LLC
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State/Country:	DELAWARE
Postal Code:	19808

PROPERTY NUMBERS Total: 31

Property Type	Number
Patent Number:	6721787
Patent Number:	8160863
Patent Number:	7835897
Patent Number:	RE42227
Patent Number:	8195442
Patent Number:	8380481
Patent Number:	7069483
Patent Number:	7852796
Patent Number:	7835372
Patent Number:	7451365
Patent Number:	7957356
Patent Number:	7941149
Patent Number:	8175613
Patent Number:	8780770
Patent Number:	8611320
Patent Number:	9554304
Patent Number:	9930575
Patent Number:	7027465
Patent Number:	RE44904
Patent Number:	7050962

PATENT

Property Type	Number
Patent Number:	7266490
Patent Number:	7555014
Application Number:	10158772
Application Number:	11557057
Application Number:	11557053
Application Number:	13766960
Application Number:	10437129
Application Number:	10816481
Application Number:	11076738
Application Number:	11095349
Application Number:	15935928

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SIGNATURE: /Janice L. Goebel/

DATE SIGNED: 11/01/2019

Total Attachments: 11

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(a) the provisional patent applications, patent applications and patents listed in the table below (the “*Patents*”);

Active Patent(s) – (Filed; Granted)

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
6721787 (09/501204)	US	4/13/2004 (2/10/2000)	SYSTEM AND METHOD FOR WIRELESS HOT-SYNCHRONIZATION OF A PERSONAL DIGITAL ASSISTANT James Scott Hiscock
8160863 (10/044217)	US	4/17/2012 (11/19/2001)	System and method for connecting a logic circuit simulation to a network Robert M. Zeidman
7835897 (11/557064)	US	11/16/2010 (11/6/2006)	APPARATUS AND METHOD FOR CONNECTING HARDWARE TO A CIRCUIT SIMULATION Robert Marc Zeidman
RE42227 (12/481943)	US	3/15/2011 (6/10/2009)	Apparatus and method for connecting hardware to a circuit simulation Robert Marc Zeidman
8195442 (12/946721)	US	6/5/2012 (11/15/2010)	APPARATUS AND METHOD FOR CONNECTING HARDWARE TO A CIRCUIT SIMULATION

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Robert Marc Zeidman
8380481 (13/487750)	US	2/19/2013 (6/4/2012)	CONVEYING DATA FROM A HARDWARE DEVICE TO A CIRCUIT SIMULATION Robert Marc Zeidman
7069483 (10/437128)	US	6/27/2006 (5/13/2003)	System and method for identifying nodes in a wireless mesh network Michael P. Nova
JP4874550 (JP2004-572210)	JP	12/2/2011 (10/31/2003)	System and method for routing packets in a wired or wireless network GILLIES DONALD W
JP4369374 (JP2004-572211)	JP	11/18/2009 (10/31/2003)	SYSTEM AND METHOD FOR BOUNDARY SCAN TEST OF WIRED OR WIRELESS NETWORK WANG WEILIN
7852796 (11/420668)	US	12/14/2010 (5/26/2006)	DISTRIBUTED MULTICHANNEL WIRELESS COMMUNICATION Xudong Wang
7835372 (11/421998)	US	11/16/2010 (6/2/2006)	System and Method for Transparent Wireless Bridging of Communication Channel Segments Weilin Wang
7451365 (11/425114)	US	11/11/2008 (6/19/2006)	System and Method for Identifying Nodes in a Wireless Network Donald W. Gillies
7957356 (11/462663)	US	6/7/2011 (8/4/2006)	SCALABE MEDIA ACCESS CONTROL FOR MULTI- HOP HIGH BANDWIDTH COMMUNICATIONS

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Xudong Wang
7941149 (11/615582)	US	5/10/2011 (12/22/2006)	Multi-Hop Ultra Wide Band Wireless Network Communication Weilin Wang
8175613 (11/741630)	US	5/8/2012 (4/27/2007)	SYSTEMS AND METHODS FOR DETERMINING LOCATION OF DEVICES WITHIN A WIRELESS NETWORK Chao Gui
8780770 (11/741637)	US	7/15/2014 (4/27/2007)	SYSTEMS AND METHODS FOR VOICE COMMUNICATION OVER A WIRELESS NETWORK Weiguang Shi
8611320 (12/950558)	US	12/17/2013 (11/19/2010)	SCALABLE MEDIA ACCESS CONTROL FOR MULTI-HOP HIGH BANDWIDTH COMMUNICATIONS Weilin Wang
9554304 (14/090760)	US	1/24/2017 (11/26/2013)	SCALABLE MEDIA ACCESS CONTROL FOR MULTI-HOP HIGH BANDWIDTH COMMUNICATIONS Xudong Wang
9930575 (15/409896)	US	3/27/2018 (1/19/2017)	SCALABLE MEDIA ACCESS CONTROL FOR MULTI-HOP HIGH BANDWIDTH COMMUNICATIONS Weilin Wang
7027465 (10/167986)	US	4/11/2006 (6/11/2002)	Method for contention free traffic detection

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Hautala Petri
RE44904 (13/171882)	US	5/20/2014 (6/29/2011)	A METHOD FOR CONTENTION FREE TRAFFIC DETECTION Hautala Petri

(b) all patents and patent applications (i) to which any of the Patents directly or indirectly claims priority, and/or (ii) for which any of the Patents directly or indirectly forms a basis for priority;

(c) all reissues, reexaminations, extensions, continuations, continuations in part, continuing prosecution applications, requests for continuing examinations, divisions, registrations of any item in any of the foregoing categories (a) and (b);

(d) all foreign patents, patent applications, and counterparts relating to any item in any of the foregoing categories (a) through (c), including, without limitation, certificates of invention, utility models, industrial design protection, design patent protection, and other governmental grants or issuances;

(e) all items in any of the foregoing in categories (b) through (d), whether or not expressly listed as Patents above and whether or not claims in any of the foregoing have been rejected, withdrawn, cancelled, or the like;

(f) inventions, invention disclosures, and discoveries described in any of the Patents and/or any item in the foregoing categories (b) through (e) that (i) are included in any claim in the Patents and/or any item in the foregoing categories (b) through (e), (ii) are subject matter capable of being reduced to a patent claim in a reissue or reexamination proceeding brought on any of the Patents and/or any item in the foregoing categories (b) through (e), and/or (iii) could have been included as a claim in any of the Patents and/or any item in the foregoing categories (b) through (e);

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(h) all causes of action (whether known or unknown or whether currently pending, filed, or otherwise) and other enforcement rights under, or on account of, any of the Patents and/or any item in any of the foregoing categories (b) through (g), including, without limitation, all causes of action and other enforcement rights for

- (1) damages,
- (2) injunctive relief, and
- (3) any other remedies of any kind

for past, current, and future infringement;

(i) all rights to collect royalties and other payments under or on account of any of the Patents and/or any item in any of the foregoing categories (b) through (h); and

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Inactive Patent(s) – (Abandoned; Lapsed; Expired)

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(60/193169)	US	(3/28/2000)	Method for connecting a hardware emulator to a network Robert M. Zeidman
7050962 (09/751573)	US	5/23/2006 (12/28/2000)	Method for connecting a hardware emulator to a network Robert M. Zeidman
7266490 (10/158648)	US	9/4/2007 (5/31/2002)	Apparatus and method for connecting hardware to a circuit simulation Robert Marc Zeidman
(10/158772)	US	(5/31/2002)	Apparatus and method for connecting a hardware emulator to a computer peripheral Robert Marc Zeidman
(11/557057)	US	(11/6/2006)	APPARATUS AND METHOD FOR CONNECTING A

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			HARDWARE EMULATOR TO A COMPUTER PERIPHERAL Robert Marc Zeidman
(11/557053)	US	(11/6/2006)	SYSTEM AND METHOD FOR CONNECTING A LOGIC CIRCUIT SIMULATION TO A NETWORK Robert M. Ziedman
(13/766960)	US	(2/14/2013)	CONVEYING DATA FROM A HARDWARE DEVICE TO A CIRCUIT SIMULATION Robert Marc Zeidman
(60/380425)	US	(5/13/2002)	Low cost, minimal software footprint, self configuring, ad hoc, autonomic networking apparatus and method of use Michael P. Nova
(10/437129)	US	(5/13/2003)	SYSTEMS AND METHODS FOR ROUTING PACKETS IN A WIRED OR WIRELESS NETWORK Michael P. Nova
(PCT/US2003/034799)	WO	(10/31/2003)	SYSTEM AND METHOD FOR ROUTING PACKETS IN A WIRED OR WIRELESS NETWORK GILLIES DONALD W
(CN200380110363.0)	CN	(10/31/2003)	System and method for routing packets in a wired or wireless network

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			GILLIES DONALD W WANG WEILIN N
(EP03778062.4)	EP	(10/31/2003)	SYSTEM AND METHOD FOR ROUTING PACKETS IN A WIRED OR WIRELESS NETWORK GILLIES DONALD W
(PCT/US2003/034884)	WO	(10/31/2003)	SYSTEM AND METHOD FOR BOUNDARY SCAN TEST OF A WIRED OR WIRELESS NETWORK NOVA MICHAEL P
(CN200380110362.6)	CN	(10/31/2003)	SYSTEM AND METHOD FOR BOUNDARY SCAN TEST OF WIRED OR WIRELESS NETWORK GILLIES DONALD W WANG WEILIN N
(EP03778075.6)	EP	(10/31/2003)	SYSTEM AND METHOD FOR BOUNDARY SCAN TEST OF WIRED OR WIRELESS NETWORK WANG WEILIN
(60/557954)	US	(3/31/2004)	Broadband applications for wireless mesh networks Weilin Wang
(10/816481)	US	(4/1/2004)	Systems and methods for congestion control in a wireless mesh network Michael P. Nova
(11/076738)	US	(3/9/2005)	Distributed TDMA for wireless mesh network

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
			Weilin Wang
(11/095349)	US	(3/31/2005)	SYSTEMS AND METHODS FOR BROADBAND DATA COMMUNICATION IN A WIRELESS MESH NETWORK Weilin Wang
(60/747409)	US	(5/16/2006)	Distributed Multi-Channel TDMA MAC for Wireless Mesh Networks Xudong Wang
(PCT/US2007/069031)	WO	(5/16/2007)	DISTRIBUTED MULTICHANNEL WIRELESS COMMUNICATION GUI CHAO
(PCT/US2007/070225)	WO	(6/1/2007)	SYSTEM AND METHOD FOR TRANSPARENT WIRELESS BRIDGING OF COMMUNICATION CHANNEL SEGMENTS RIMMER JAMES
(15/935928)	US	(3/26/2018)	SCALABLE MEDIA ACCESS CONTROL FOR MULTI-HOP HIGH BANDWIDTH COMMUNICATIONS Weilin Wang
(PCT/EP1999/010097)	WO	(12/17/1999)	A METHOD FOR CONTENTION FREE TRAFFIC DETECTION Hautala Petri

<u>Patent/Application Number</u>	<u>Country</u>	<u>Issue Date/ Filing Date</u>	<u>Title of Patent and First Named Inventor</u>
(EP99965493.2)	EP	(12/17/1999)	A METHOD FOR CONTENTION FREE TRAFFIC DETECTION Hautala Petri
7555014 (11/402621)	US	6/30/2009 (4/11/2006)	METHOD FOR CONTENTION FREE TRAFFIC DETECTION Hautala Petri

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