# CH \$365.00 41108

# TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 ETAS ID: TM710705

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST

### **CONVEYING PARTY DATA**

Name	Formerly	Execution Date	Entity Type
SIERRA WIRELESS, INC.		01/19/2022	Corporation:

### **RECEIVING PARTY DATA**

Name:	CANADIAN IMPERIAL BANK OF COMMERCE
Street Address:	199 BAY STREET, COMMERCE COURT, 4TH FLOOR
Internal Address:	CANADIAN IMPERIAL BANK OF COMMERCE
City:	TORONTO, ON
State/Country:	CANADA
Postal Code:	M5L 1A2
Entity Type:	Chartered Bank: CANADA

### **PROPERTY NUMBERS Total: 14**

Number	Word Mark					
4110874	AIRPRIME					
4243932	AIRVANTAGE					
5153592	CF3					
4698092	LEGATO					
4853539	LEGATO					
5578114	MANGOH					
5184368	MANGOH					
5174239	MANGOH					
5102879	PROJECT MANGOH					
4177465	SIERRA WIRELESS					
4287452	SIERRA WIRELESS					
4958080	SIERRA WIRELESS SKYLIGHT					
2726412						
88203627	OCTAVE					
	4110874 4243932 5153592 4698092 4853539 5578114 5184368 5174239 5102879 4177465 4287452 4958080 2726412					

### **CORRESPONDENCE DATA**

**Fax Number:** 

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

TRADEMARK REEL: 007644 FRAME: 0033

900677954

**Email:** van-ipdocketing@mccarthy.ca

Correspondent Name: Vincent Yip

Address Line 1: 745 Thurlow Street

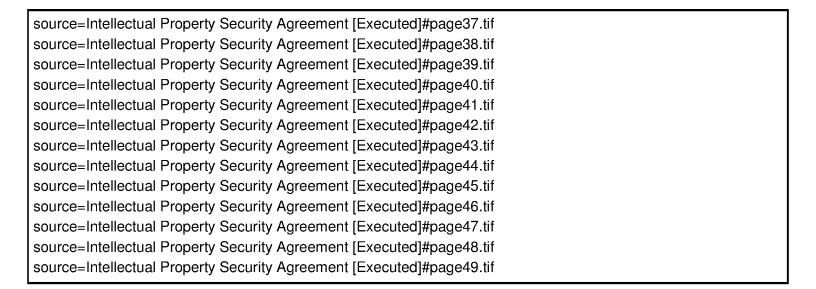
Address Line 2: Suite 2400

Address Line 4: Vancouver, BC, CANADA V6E0C5

ATTORNEY DOCKET NUMBER:	704366553330
NAME OF SUBMITTER:	Vincent Yip
SIGNATURE:	/Vincent Yip/
DATE SIGNED:	02/25/2022

### **Total Attachments: 49**

source=Intellectual Property Security Agreement [Executed]#page1.tif source=Intellectual Property Security Agreement [Executed]#page2.tif source=Intellectual Property Security Agreement [Executed]#page3.tif source=Intellectual Property Security Agreement [Executed]#page4.tif source=Intellectual Property Security Agreement [Executed]#page5.tif source=Intellectual Property Security Agreement [Executed]#page6.tif source=Intellectual Property Security Agreement [Executed]#page7.tif source=Intellectual Property Security Agreement [Executed]#page8.tif source=Intellectual Property Security Agreement [Executed]#page9.tif source=Intellectual Property Security Agreement [Executed]#page10.tif source=Intellectual Property Security Agreement [Executed]#page11.tif source=Intellectual Property Security Agreement [Executed]#page12.tif source=Intellectual Property Security Agreement [Executed]#page13.tif source=Intellectual Property Security Agreement [Executed]#page14.tif source=Intellectual Property Security Agreement [Executed]#page15.tif source=Intellectual Property Security Agreement [Executed]#page16.tif source=Intellectual Property Security Agreement [Executed]#page17.tif source=Intellectual Property Security Agreement [Executed]#page18.tif source=Intellectual Property Security Agreement [Executed]#page19.tif source=Intellectual Property Security Agreement [Executed]#page20.tif source=Intellectual Property Security Agreement [Executed]#page21.tif source=Intellectual Property Security Agreement [Executed]#page22.tif source=Intellectual Property Security Agreement [Executed]#page23.tif source=Intellectual Property Security Agreement [Executed]#page24.tif source=Intellectual Property Security Agreement [Executed]#page25.tif source=Intellectual Property Security Agreement [Executed]#page26.tif source=Intellectual Property Security Agreement [Executed]#page27.tif source=Intellectual Property Security Agreement [Executed]#page28.tif source=Intellectual Property Security Agreement [Executed]#page29.tif source=Intellectual Property Security Agreement [Executed]#page30.tif source=Intellectual Property Security Agreement [Executed]#page31.tif source=Intellectual Property Security Agreement [Executed]#page32.tif source=Intellectual Property Security Agreement [Executed]#page33.tif source=Intellectual Property Security Agreement [Executed]#page34.tif source=Intellectual Property Security Agreement [Executed]#page35.tif source=Intellectual Property Security Agreement [Executed]#page36.tif



### INTELLECTUAL PROPERTY SECURITY AGREEMENT

SIERRA WIRELESS, INC. (together with its successors, by amalgamation or otherwise, the "Borrower")

SIERRA WIRELESS AMERICA INC. (together with its successors, by amalgamation or otherwise, "America")

(collectively, the "Obligors")

TO: CANADIAN IMPERIAL BANK OF COMMERCE, in its capacity as agent (together

with any successors thereto, the "Agent")

AND TO: The Lenders (as defined below), as lenders

DATE: January 19, 2022

### RECITALS:

- A. The Borrower, as borrower, America, as guarantor, the other credit parties from time to time party thereto, Canadian Imperial Bank of Commerce, Business Development Bank of Canada and the other financial institutions party from time to time thereto (the "Lenders"), as lenders, and the Agent, as agent, are parties to a credit agreement dated as of <u>January 19</u>, 2022. (the "Credit Agreement").
- B. Pursuant to the Credit Agreement, each of the Obligors entered into a security agreement each dated as of <u>January 19</u>, 2022 (as amended, supplemented or otherwise modified from time to time, collectively, the "General Security Agreements") in favour of the Agent, whereby the Obligors granted a security interest in all present and after-acquired personal property of the Obligors, as applicable, including all patents, trademarks, copyrights, and all other intellectual property.
- C. As additional security for the obligations of the Borrower to the Agent, as described in the Credit Agreement (the "Obligations"), the Obligors have agreed to enter into this intellectual property security agreement (the "Agreement").

FOR VALUE RECEIVED and intending to be legally bound by this Agreement, the Obligors agree as follows:

### 1. INTERPRETATION

- 1.1 <u>Conflict with Credit Agreement</u> If there is any conflict or inconsistency between the terms of the Credit Agreement and the terms of this Agreement, the provisions of the Credit Agreement shall govern to the extent necessary to remove the conflict or inconsistency.
- 1.2 <u>Intercreditor Agreement</u> The rights and remedies of the Agent hereunder are subject to the terms of the Intercreditor Agreement (as defined in the Credit Agreement). In the event of a conflict or inconsistency between any provision hereof and the Intercreditor Agreement (as defined in the Credit Agreement) during any time in which the Intercreditor Agreement (as defined in the Credit Agreement) is in full force and effect between the Senior Agent (as defined in the Credit Agreement) and the Agent, the Intercreditor Agreement (as defined in the Credit Agreement) shall govern and control.

1.3 Other Interpretive Rules. Any rights or benefits stated to accrue to the benefit of the Agent shall accrue to the benefit of the Agent for and on behalf of and for the benefit of the Lenders and any decision, determination, or other action required or permitted to be made or taken by the Agent shall be interpreted to mean that decision, determination or other action made or taken in accordance with the provisions of the Credit Agreement.

### 2. GRANT OF SECURITY, ETC.

- 2.1 Grant of Security As security for payment and performance of the Obligations, the Obligors mortgage, charge, assign, transfer and pledge to the Agent as a fixed and specific mortgage and charge, and grant the Agent a security interest in, all of the Obligors' rights, titles and interests in and to all trademarks, patents, industrial designs, copyrights, internet domain names and all other intellectual property (collectively, the "Intellectual Property") now owned or at any time hereafter acquired by the Obligors or in which the Obligors now have or at any time in the future may acquire any right, title or interest (including, without limitation, all Intellectual Property listed on Schedule "A" hereto).
- 2.2 <u>Purpose</u>. This Agreement has been executed and delivered by the Obligors for the purpose of recording the grant of security interest herein with the Canadian Intellectual Property Office, the United States Patent and Trademark Office, the United States Copyright Office, or such other office or registry as may be appropriate from time to time.
- 2.3 <u>Acknowledgment</u>. The Obligors hereby acknowledge and affirm that the rights and remedies of the Agent with respect to the security interest in the Intellectual Property are more fully set forth in each of the General Security Agreements, the terms and conditions of each (including the remedies provided for therein) are incorporated by reference herein as if fully set forth herein.
- 2.4 <u>Governing Law.</u> This Agreement and any dispute arising from or in relation to this Agreement shall be governed by, and interpreted and enforced in accordance with, the law of the Province of British Columbia and the laws of Canada applicable therein, excluding the conflict of law rules of that province.

[Signature page follows – remainder of page is intentionally blank]

**IN WITNESS OF WHICH**, the Obligors have duly executed this Agreement as of the date first above written.

# SIERRA WIRELESS, INC.,

by its authorized signatory:

By:

Name: Sam Cochrane

Title: CFO

# SIERRA WIRELESS AMERICA INC.,

by its authorized signatory:

By:

Name: Sam Cochrane

Title: CFO

**REEL: 007644 FRAME: 0039** 

SCHEDULE A

# INTELLECTUAL PROPERTY

**PATENTS** 

PAT	PAT	PAT	PAT	PAT	Тур
US	US	US	US	US	Countr y
Method and apparatus for multi-transport	Methods and apparatuses for small data transmissions	Method and Apparatus for Facilitating Transmissions In A Wireless Communication System	Method and apparatus for resource allocation for half duplex frequency division duplexing in a wireless communication system	Methods and apparatuses for supporting multi transport block grant data transmission	Title
Pending	Pending	Pending	Pending	Pending	Status
9-Aug-19	5-Sep-19	2-Oct-20	8-Oct-20	24-Feb- 21	Official Filing Date
US 2020-053750	US 2020-092905	US 2021-105099	US 2021-028918	US 2021-273751	Publication No.
13-Feb- 20	19-Mar- 20	8-Apr-21	28-Jan- 21		Publicati on Date
					Patent/ Registratio n No.
					Issue Date
					Expir y Date
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Assignee

PAT	PAT	PAT	PAT	LP	LP	LP	PAT	
US	CN	US	CX	CA	US	US	US	
METHOD AND APPARATUS FOR MANAGING WIRELESS COMMUNICATION	Method and Apparatus for Managing Wireless Communication Based on Network Traffic Level	Minimise PDP Activations	Method and Apparatus for Facilitating Push Communication across a Network Boundary	Cognitive Wireless System	GATEWAY NETWORK MULTIPLEXING	LAN/WWAN GATEWAY CARRIER CUSTOMIZATION	Methods and systems for remote software update	block grant transmissions
Issued	Issued	Issued	Issued	Issued	Issued	Issued	Pending	
21-Jun- 11	22-Jun- 11	17-Nov- 09	12-May- 10	7-Jan-11	10-Nov- 06	10-Nov- 06	1-Aug-19	
US 2010- 0099430	CN 102948192 A	US 2010- 0124191	CN 102714636 A	CA 2,730,269	US 2007- 0104168	US 2007- 0104169	US 2020-042313	
26-Apr- 12	27-Feb- 13	20-May- 10	3-Oct-12	14-Jan- 11	10-May- 07	10-May- 07	6-Feb-20	
8,964,549	ZL2011800 31107.7	8,228,848	ZL 2010800600 40.5	2,730,269	8121071	8,054,778		
24-Feb- 15	29-Jun- 16	24-Jul- 12	25-Nov- 15	17-Apr- 18	21-Feb- 12	08-Nov- 11		
4- Nov- 31	22- Jun- 31	18- Jun- 30	12- May- 30					
Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless	Sierra Wireless America Inc.	Sierra Wireless America Inc.	Sierra Wireless, Inc.	

LP	PAT	PAT	US	PAT	
DE	CN	US	US	AU	
Method and Apparatus for Managing Communications in a Wireless Communication System	Method and Apparatus for Managing Communications in a Wireless Communication System	ACTIVE/STANDBY OPERATION OF A FEMTOCELL BASE STATION	Method and System for Performing Position Updates in a Wireless Communication System	Method and System for Performing Position Updates in a Wireless Communication System	BASED ON NETWORK TRAFFIC LEVEL
Validati on	Issued	Issued	Issued	Issued	
14-Sep- 12	9-Oct-12	4-Aug-10	11-May- 10	11 <b>-May-</b> 10	
2537366	201180018182.X	US 2012- 0033611	US 2010- 0285816		
26-Dec- 12	19-Dec- 12	9-Feb-12	11-Nov- 10		
2537366	ZL 2011800181 82.X	8,520,634	8,494,551	2010246848	
7-Nov- 18	20-Jan- 16	27-Aug- 13	23-Jul- 13	8-Jan-15	
	15- Feb- 31	16- Sep- 31	1- Aug- 31	11- May- 30	
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless,	Sierra Wireless, Inc.	

PAT	PAT	US	PAT	LP	LP
DE	US	US	US	GB	FR
TLS Abbreviated Session Identifier Protocol	Self-Provisioning Antenna System and Method	MANAGING COMMUNICATION OPERATIONS OF WIRELESS DEVICES	METHOD AND APPARATUS FOR MANAGING COMMUNICATIONS IN A WIRELESS COMMUNICATION SYSTEM	Method and Apparatus for Managing Communications in a Wireless Communication System	Method and Apparatus for Managing Communications in a Wireless Communication System
Validati on	Issued	Issued	Issued	Validati on	Validati on
9-May- 13	1-Dec-10	25-Apr- 11	15-Feb- 11	14-Sep- 12	14-Sep- 12
2850776/DE602 013027219.0	US 2012/0139788	US 2011/0261891	US 2011/0199901	2537366	2537366
25-Mar- 15	7-Jun-12	27-Oct-	18-Aug- 11	26-Dec- 12	26-Dec- 12
EP2850776	8,405,547	8,582,631	8,565,080	2537366	2537366
27-Sep- 17	26-Mar- 13	12-Nov- 13	22-Oct- 13	7-Nov- 18	7-Nov- 18
			8- Nov- 31		
Sierra Wireless, Inc.	Sierra Wireless America Inc.	Sierra Wireless, Inc.	Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless,

PAT	PAT	PAT	PAT	PAT	PAT	PAT	PAT	PAT
GB	FR	EP	DE	US	US	US	US	GB
Method and System for Radio Resource Allocation	Subscription and Charging Control for Wireless Communications Between Proximate Devices	Method And Apparatus For Management Of Network Communications	TLS Abbreviated Session Identifier Protocol	Session Identifier Protocol				
Issued	Issued	Issued	Issued	Pending	Issued	Issued	Issued	Validati on
4-Oct-13	4-Oct-13	4-Oct-13	4-Oct-13	2-Jun-16	1-Feb-13	7-May- 12	14-May- 12	9-May- 13
2904867	2904867	2904867	2904867	US 2016/0278098	US 2013/0203378	US-2012- 0284385-A1	US-2013- 0305036	
12-Aug- 15	12-Aug- 15	12-Aug- 15	12-Aug- 15	22-Sep- 16	8-Aug-13	8-Nov-12	14-Nov- 13	25-Mar- 15
2904867	2904867	2904867	2904867		9,854,423	8,972,556	8,843,738	EP2850776
1	ı	1	ı		26-Dec- 17	3-Mar- 15	27-Sep-	27-Sep- 17
						15- Oct- 32	14- May- 32	
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT	VAL	VAL	VAL	PAT	PAT
US	GB	FR	DE	US	SN
Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Wireless Communication with Machine-to-Machine Devices	Method and System for Wireless Communication with Machine-to-Machine Devices
Issued	Validati on	Validati on	Validati on	Issued	Issued
4-0ct-13	4-Oct-13	4-Oct-13	4-Oct-13	14-Jun- 13	13-Dec- 13
US-2014- 0098781	2904864	2904864	2904864	US-2013- 0336111	US-2014- 0105009
10-Apr- 14	12-Aug- 15	12-Aug- 15	12-Aug- 15	19-Dec- 13	17-Apr- 14
10,455,575	2904864	2904864	2904864	9,380,430	9445302
22-Oct- 19	18-Sep- 19	18-Sep- 19	18-Sep- 19	28-Jun- 16	13-Sep- 16
				6- Mar- 34	12- Jul-33
Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless,	Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless, Inc.

LP	PAT	РАТ	PAT	PAT	PAT
US	ZI.	UK	FR	EP	DE
Method and System for Providing Differentiated	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers
Issued	Validati on	Validati on	Validati on	Issued	Validati on
2-Apr-14	2-Apr-14	2-Apr-14	2-Apr-14	2-Apr-14	2-Apr-14
US-2014- 0295790	2989814	2989814	2989814	2989814	2989814
2-Oct-14	2-Mar-16	2-Mar-16	2-Mar-16	2-Mar-16	2-Mar-16
9,948,789	2989814	2989814	2989814	2989814	2989814, DE60 2014 046 442.4.
17-Apr-	8-May- 19	8-May- 19	8-May- 19	8-May- 19	8-May- 19
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT	VAL	VAL	VAL	PAT	
US	GB	FR	DE	CN	
Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Wireless Network Access and Billing to Subscribers
Issued	Validati on	Validati on	Validati on	Issued	
28-Dec- 12	8-Aug-13	8-Aug-13	8-Aug-13	28-Dec- 12	
US-2014- 0185534	2939464	2939464	2939464	CN105009630A	
3-Jul-14	4-Nov-15	4-Nov-15	4-Nov-15	28-Oct- 15	
9,144,066	2939464	2939464	2939464	ZL2013800 73980.1	
22-Sep- 15	7-Mar- 18	7-Mar- 18	7-Mar- 18	27-Sep- 19	
21- May- 33				8- Aug- 33	
Sierra Wireless, Inc.	Sierra Wireless,	Sierra Wireless,	Sierra Wireless,	Sierra Wireless,	

PAT	PAT	LP	PAT	PAT	PAT	PAT
US	EP	US	US	US	US	US
Method and Apparatus for Electrical Keying of an Integrated Circuit Package Having Rotationally Symmetric Footprint	Method and Apparatus for Electrical Keying of an Integrated Circuit Package Having Rotationally Symmetric Footprint	Method and Apparatus for Communication of System Information in a Wireless System	Method and Apparatus for Determining Time- Varying Limitations of A Power Source	Method And Apparatus For Broadcast Channel Decoding	Method and Device for Communication between a Device and a Server	Method and Device Enabling A Dynamic Bundle Size HARQ Mechanism
Issued	Pending	issued	Issued	Issued	Issued	Issued
1-0ct-13	30-Sep- 14	25-Apr- 14	24-May- 13	2-Apr-14	15-Mar- 07	1-Aug-13
US-2015- 0091390		US-2014- 0334372	US-2014- 0347100	US-2014- 0301296	US 2009/0216344	US-2015- 0039958
2-Apr-15		13-Nov- 14	27-Nov- 14	9-Oct-14	27-Aug- 09	5-Feb-15
9,668,356		10,009,831	9,075,086	9,369,230	8,484,285	9,184,880
30-May- 17		26-Jun- 18	7-Jul-15	14-Jun- 16	9-Jul-13	10-Nov- 15
			4-Jul- 33	25- Apr- 34	15- Mar- 27	
Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT	PAT	PAT	PAT	PAT	PAT	PAT
US	Ę	GB	FR	DE	EP	US
Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Wireless Device Customization Resources				
Issued	Allowed	Allowed	Allowed	Allowed	Allowed	Issued
26-Sep- 13	26-Sep- 14	26-Sep- 14	26-Sep- 14	26-Sep- 14	26-Sep- 14	24-Feb- 15
US 2015/0085689	EP3050389	EP3050389	EP3050389	EP3050389	EP3050389	US-2015- 0245215
26-Mar- 15						27-Aug- 15
9,716,988						9894523
25-Jul- 17						13-Feb- 18
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT	PAT	PAT	PAT	PAT	PAT	
EP	US	EP		$\overline{\mathrm{US}}$	US	
Method and System for Transmitting	Method and Apparatus for Resource Allocation for Half Duplex Frequency Division Duplexing in a Wireless Communication System	Method and Apparatus for Resource Allocation for Half Duplex Frequency Division Duplexing in a Wireless Communication System	Method and Apparatus for Communicating System Information and Random Access in a Wireless System	Method, Apparatus And System For Gesture Based Security	Abbreviated Blind Detection in Wireless Communication Systems including LTE	
Validati on	Issued	Publishe d	Issued	Issued	Issued	
18-Apr- 18	16-May- 16	13-May- 16	7-Apr-16	9-Dec-14	15-Mar- 14	
EP3354064	US-2016- 0338089	3295701	US-2016- 0302024	US-2016- 0162676	US-2015- 0264665	
	17-Nov- 16	21-Mar- 18	13-Oct- 16	09 <b>-J</b> un- 16	17-Sep- 15	
EP3354064	10,819,496		10,111,067	10,346,603	9,681,256	
20-Jan- 21	27-Oct- 20		23-Oct- 18	09-Jul- 19	13-Jun- 17	
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	

-	l #		-	Н	Н		
PAT	PAT	LP	PAT	PAT	PAT	PAT	
US	EP	US	EP	US	EP	US	
Methods and Apparatuses for User Equipment Access to a Wireless	Methods and Apparatuses for User Equipment Access to a Wireless Communication System	Method and Apparatus for Paging Terminals in a Wireless Communication System	Method and Apparatus for Paging Terminals in a Wireless Communication System	Method and System for Paging User Equipment	Method and System for Paging User Equipment	Method and System for Transmitting Control Information for User Equipment	Control Information for User Equipment
Pending	Publishe d	Issued	Pending	Pending	Pending	Issued	
29-Sep- 17	29-Sep- 17	4-Nov-16	24-May- 18	3-Oct-16	19-Apr- 18	26-Sep- 16	
US2018/098360	EP3520545	US-2017- 0135066-A1		US-2017- 0099649-A1		US-2017- 0094644-A1	
5-Apr-18	7-Aug-19	11-May- 17		6-Apr-17		30-Mar- 17	
ı	ı	10271302				10,225,829	
	ı	23-Apr- 19				5-Mar- 19	
30- Sep- 17	30- Sep- 17						
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.		Sierra Wireless, Inc.	

PAT	PAT	PAT	PAT	PAT	PAT	PAT	PAT	
WO	EP	US	US	US	WO	EP	CN	
Method and Apparatus for Indicating a System Information Block Change	Method and Apparatus for Indicating a System Information Block Change	Method and System for Using Enhanced Primary Synchronization Signal	Protection Circuit Involving Positive Temperature Coefficient Device	Method and Apparatus for Secure Computing Device Start Up	Method and Apparatus for Secure Computing Device Start Up	Method and Apparatus for Secure Computing Device Start Up	Method and Apparatus for Secure Computing Device Start Up	Communication System
Publishe d	Publishe d	Issued	Issued	Issued	Publishe d	Pending	Publishe d	
8-Aug-18	8-Aug-18	2-May- 18	2-Mar-18	28-Mar- 18	22-Mar- 18	22-Mar- 19	22-Mar- 18	
WO 2019/028553	18844149.7	2018/0324722	US20190273373	US20180285570 A1	WO2018/176125	3602375	CN110494856A	
14-Feb- 19		8-Nov-18	5-Sep-19	4-Oct-18	4-Oct-18	5 Feb. 2020	22-Nov- 19	
		10764847	10868416	11048801				
		1-Sep- 20	15-Dec- 20	29-Jun- 20				
Sier Wir Inc.		Sier Wir Inc.	Sier Wir Inc.	Sier Wir Inc.	Sier Wir Inc.	Sier Wir Inc.	Sier Wir Inc.	
Sierra Wireless, Inc.		Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	

PAT	PAT	PAT	PAT	PAT
WO	US		US	US
DMRS for a 2 sub-carrier pi/2 BPSK Modulation in an OFDMA system, Joint filing with D18010410 as Methods and Apparatuses for Implementation of Cyclic Prefix and Demodulation Reference Signals in 2 Sub-Carrier Pi/2 Binary Phase Shift Keying Modulation in a Communication System	Methods and Apparatuses For Phase Rotation in 2 Sub Carrier PI/2 Binary Phase Shift Keying Communication	2 Tone in-phase pi/2 BPSK Sub-PRB Modulation	Method and Apparatus for Secure Software Update	Method and Apparatus for Indicating a System Information Block Change
Publishe d	Issued	Issued	Issued	Pending
16-Jan- 19	16-Jan- 19	15-Nov- 18	15-Jun- 18	8-Aug-18
WO2019140519	US20190222447 A1	US20190149381 A1	US20190384586	US2019/053156
25-Jul-19	18-Jul-19	16-May- 19		14-Feb- 19
	10,630,445	10931492	10977024	
	21-Apr- 20	23-Feb- 21	13-Apr- 21	
Sierra Wireless,	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT WO	PAT US	PAT US	PAT US	PAT WO	PAT US	PAT US
Method and Apparatus for Time Advance Validation Using	Method and Apparatus for Supporting Two- Step Random Access Channel Usage in a Wireless Channel Using a	Method and Apparatus for Supporting Two- step Random Access Channel Usage in a Wireless Communication System	Method and Apparatus for Communication of System Information in a Wireless System	Method and Apparatus for Communication of System Information in a Wireless System	Method and Apparatus for Multi-Transport Block Grant Transmissions (Multi- DCI TBI HARQ)	DMRS for a 2 sub- carrier pi/2 BPSK Modulation in an OFDMA system
Pending	Pending	Pending	Pending	Pending	Pending	Publishe d
13-Feb- 20	14-Feb- 20	14-Feb- 20	5-Sep-19	3-Sep-19	9-Aug-18	16-Jan- 19
WO2020/163957	US2020/0267774	US 2020-267774	US2020/009290 5	WO2020/047655	US20200053769	US20190222388
	20-Aug- 20		19-Mar- 29	12-Mar- 20	13-Feb- 20	18-Jul-19
	Sierra Wireless Inc.	Sierra Wireless, Inc.	Sierra Wireless Inc.	Sierra Wireless Inc.	Sierra Wireless Inc.	Sierra Wireless, Inc.

LP	VAL	VAL	VAL	PAT	PAT
US	GB	FR	DE	US	US
System and Method for Remotely Monitoring Modem Status	Methods and Appparatuses for Supporting Multi Transport Block Grant Data Transmsission in a Wireless communication System	Received Power Received Power Method and apparatus for time advance validation using reference signal received power			
Issued	Validati on	Validati on	Validati on	Pending	Pending
30-Jul-01	30-Jul-02	30-Jul-02	30-Jul-02	27-Feb- 20	13-Feb- 20
US 2003- 0023720	EP1415436	EP1415436	EP1415436	US2021/0273751	US 2020-260397
30-Jan- 03				2-Sep-21	
7600013	EP1415436	EP1415436	EP1415436		
06-Oct- 09	12-Sep- 07	12-Sep- 07	12-Sep- 07		
Projec ted tb March 16, 2024 (30-					
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless,	Sierra Wireless, Inc.

LP	VAL	VAL	VAL	VAL	PAT	LP	
CN	HK	GB	FR	DE	US	US	
Dynamic Bus Based Virtual Channel Multiplexing Device Driver Architecture	Efficient Notification Of New Electronic Mail Arrival (Previously incorrect labelled -872, Validation from EP- 780, HK stage II)	Efficient Notification Of New Electronic Mail Arrival	Efficient Notification Of New Electronic Mail Arrival	Efficient Notification Of New Electronic Mail Arrival	Always-on Virtual Private Network Access	System and Method for Remotely Monitoring Modern Status	
Issued	Validati on	Validati on	Validati on	Validati on	Issued	Issued	
6-Oct-06	2-Sep-04	2-Sep-04	2-Sep-04	2-Sep-04	26-Jul-02	20-Dec- 01	
CN101490637	HK1092619	EP1661305	EP1661305	EP1661305	US 2004- 0068666	US 2003- 0120818	
22-Jul-09	2-Sep-07	31-May- 06	31-May- 06	31-May- 06	8-Apr-04	26-Jun- 03	
ZL2006800 41579.X	HK1092619	1661305	1661305	1661305	8,707,406	7023878	
7-Sep-	11-Apr- 14	8-Jan-14	8-Jan-14	8-Jan-14	22-Apr- 14	4-Apr- 06	
							Jul- 21+96 0 PTA)
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	

PAT	РАТ	PAT	PAT	PAT
DE	US	GB	FR	DE
Method and System for Aggregating Communications	Method and Apparatus for Port Forwarding in Network Address Translation	METHOD AND APPARATUS FOR PORT FORWARDING IN NETWORK ADDRESS TRANSLATION	METHOD AND APPARATUS FOR GLOBAL NAVIGATION SATELLITE SYSTEM RECEIVER COUPLED TO A HOST COMPUTER SYSTEM	METHOD AND APPARATUS FOR GLOBAL NAVIGATION SATELLITE SYSTEM RECEIVER COUPLED TO A HOST COMPUTER SYSTEM
Validati on	Issued	Issued	Validati on	Validati on
12-Feb- 10	17-Nov- 09	17-Nov- 09	22-Sep- 09	22-Sep- 09
2,396,937	US 2012- 0023257-A1	2478470	2331984	2331984
21-Dec-	26-Jan- 12	7-Sep-11	15-Jun- 11	15-Jun- 11
EP2396937 (DE60 2010 046 215.3)	8,812,730	2478470	2331984	2331984
25-Oct- 17	19-Aug- 14	16-Apr- 14	29-May- 13	29-May- 13
12- Feb- 30	31- Jan-30			
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT	PAT	PAT	PAT	PAT	PAT	PAT
NL	GB	FR	DE	US	GB	FR
METHOD AND APPARATUS FOR ASSOCIATING	METHOD AND APPARATUS FOR ASSOCIATING INDENTITY MODULES AND TERMINAL EQUIPMENT	METHOD AND APPARATUS FOR ASSOCIATING INDENTITY MODULES AND TERMINAL EQUIPMENT	METHOD AND APPARATUS FOR ASSOCIATING INDENTITY MODULES AND TERMINAL EQUIPMENT	Method and System for Aggregating Communications	Method and System for Aggregating Communications	Method and System for Aggregating Communications
Validati on	Validati on	Validati on	Validati on	Issued	Validati on	Validati on
17-Nov- 09	17-Nov- 09	17-Nov- 09	17-Nov- 09	12-Feb- 09	12-Feb- 10	12-Feb- 10
2,356,836	2,356,836	2,356,836	2,356,836	US 2010- 0205260	2,396,937	2,396,937
17-Aug-	17-Aug- 11	17-Aug- 11	17-Aug- 11	12-Aug- 10	21-Dec- 11	21-Dec-
EP2356836	EP2356836	EP2356836	EP2356836 / DE60 2009 043 759.3	8,924,486	EP2396937	EP2396937
1-Jan-17	1-Jan-17	1-Jan-17	1-Jan-17	30-Dec- 14	25-Oct- 17	25-Oct- 17
17- Nov- 29	17- Nov- 29	17- Nov- 29	17- Nov- 29	31- Jul-29	12- Feb- 30	12- Feb- 30
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

																									PAT					
	S	211					Č	<u>S</u>									US								US					
connected equipment	between a non-	communicating	System for	network	of a cellular telephony	type to the resources	machine-to-machine	network of the	of equipment for a	controlling the access	Method and device for	and terminal	product, storage means	computer program	corresponding	network,	radiocommunications	network to a second	radiocommunications	first	a terminal over from a	Method for switching	Mobile Equipment	Circuit Card and	Universal Integrated	for Associating	Method and Apparatus	EQUIPMENT	TERMINAL	MODULES AND
Issued				Issued								Issued											Issued							
	2012	1-Oct-					2013	28-Feb-								1017	2014	1_Oct_						07	00	17_Nov-				
		0272195	US 2013-							0087743	US 2014-										0094011	US 2015-		2011/0207/40	2011/02877/10	211				
																								11	11	74-Nov-				
			US8902818								US9148746											US9635532			9,628,474					
	2014	2-Dec-					2015	29-Sep-	!							17	23-Api- 17	75_Apr_						17	10-/101-	18_Anr_				
																								29	Nov-	17-				
	S.A.	Wireless,	Sierra						S.A.	Wireless,	Sierra									S.A.	Wireless,	Sierra	Inc.	Wireless,	Sierra					

LP				
MX	US	US	US	
METODO Y SISTEMAS PARA ADMINISTRAR MODULOS DE IDENTIDAD DE SUSCRIPTORES EN REDES INALAMBRICAS	Method of locating a radiocommunication device, corresponding computer program product, storage means and radiocommunication module	Device for electromagnetic shielding and dissipation of heat released by an electronic component, and corresponding electronic circuit	Methods for transmitting and managing voice frames, computer program product, means of storage and corresponding devices	and a management server
Issued	Issued	Issued	Issued	
9-Jan-12	16-Jun- 2009	19-Jun- 2009	16-Oct- 2009	
	US 2011- 0312323	US 2011- 0194259	US 2010- 0099400	
4-Oct-13				
314,471	US8301170	US8422234	US8289847	
23-Oct- 13	30-Oct- 12	16-Apr- 13	16-Oct- 12	
Sierra Wireless America, Inc.	Sierra Wireless, S.A.	Sierra Wireless, S.A.	Sierra Wireless, S.A.	

PAT	PAT	LP	LP	
Wo	MX	MX	MX	
Method and Apparatus for Multi-Transport Block Grant Transmissions (Multi- TB Scheduling with Time Diversity)	CONTROL IMPERACTIVO DE SISTEMAS DE ALARMA POR INTERFAZ DE TELEFONO UTILIZANDO UNA PUERTA DE ENLACE INTERMEDIA.	ENTREGA DE DATOS Y AUDIO DE EVENTOS DEL SISTEMA DE ALARMA.	ENTREGA DE DATOS Y AUDIO DE EVENTOS DEL SISTEMADE ALARMA SOBRE REDES HIBRIDAS.	PARA APLICACIONES MAQUINA-A- MAQUINA.
Publishe d	Issued	Issued	Issued	
9-Aug-18	27-Apr- 12	4-Apr-12	6-Mar-12	
WO 2020/028993	WO 2012/149262	WO 2012/138683	WO 2012/138443	
	13-Feb- 20	25-Oct- 13	20-Jan- 15	
	327,926	327,143	327,784	
	16-Feb- 15	20-Jan- 15		
Sierra Wireless, Inc.	Sierra Wireless America,	Sierra Wireless America, Inc.	Sierra Wireless America, Inc.	

PAT	PAT	PAT	PAT	PAT
EP	EP	EP	ΕP	EP
Method and Apparatus for Communication of System Information in a Wireless System	Methods and Systems for Remote Software Update	"DMRS for a 2 sub-carrier pi/2 BPSK Modulation in an OFDMA system, Joint filing with D18010410 as Methods and Apparatuses for Implementation of Cyclic Prefix and Demodulation Reference Signals in 2 Sub-Carrier Pi/2 Binary Phase Shift Keying Modulation in a Communication System"	2 Tone in-phase pi/2 BPSK Sub-PRB Modulation	METHOD AND APPARATUS FOR MULTI- TRANSPORT BLOCK GRANT TRANSMISSIONS
Pending	Pending	Pending	Publishe d	Pending
3-Sep-19	1-Aug-19	16-Jan- 19	14-Nov- 18	9-Aug-18
	EP3830689	EP3741090	3711268	
25-Jul-19		9-Jun-21	25-Nov- 20	23-Sep- 20
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

PAT	PAT	PAT	PAT	PAT
WO	WO	WO	EP	ΕP
METHOD AND APPARATUS FOR DEVICE TO DEVICE	Method And Apparatus For Facilitating Transmissions In A Wireless Communication System	Method and Apparatus for Supporting Two-Step Random Access Channel Usage in a Wireless Channel Using a	Method and Apparatus for Time Advance Validation Using Reference Signal Received Power	Methods and Apparatuses For Phase Rotation in 2 Sub Carrier PI/2 Binary Phase Shift Keying Communication (Focus of claims is the successful, in US, phase rotation. Note: MBM reference is as for the combined PCT filing ~306)
Pending	Pending	Publishe d	Pending	Publishe d
27-Nov- 20	2-Oct-20	14-Feb- 20	13-Feb- 20	16-Jan- 20
WO 2021/108897		WO 2020/163969		EP19740781.0
	10-Jun- 21		20-Aug- 20	
Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.	Sierra Wireless, Inc.

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US	US	US	US	WO	
Communications Device for Conveying Geographic Location Information Over Capacity Constrained Wireless Systems	Interconnect System and Method for Multiple Protocol Short Message Services	System for Communicating Messages Via a Forward Overhead Control Channel for a Programmable Logic Control Device	LAN/WWAN GATEWAY CARRIER CUSTOMIZATION	Methods and Apparatuses for Supporting Multi Transport Block Grant Data Transmission in a Wireless communication System	COMMUNICATION FOR CELLULAR DEVICES
Issued	Issued	Issued	Issued	Pending	
30-Sep- 02	2-Jan-02	20-Sep- 00	10-Nov- 06	24-Feb- 21	
			US 2007- 0104169		
			10-May- 07	4-Oct-13	
6,718,237	6,882,843	6,718,177	8,054,778		
6-Apr- 04	19-Apr- 05	6-Apr- 04	8-Nov- 11		
Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Sierra Wireless America Inc.	Sierra Wireless, Inc.	
				TRADEMAR	 K

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LP	LP	LP	LP	LP	LP	LP
US	$\overline{\mathrm{US}}$	US	US	US	US	US
Service escrowed transportable wireless event reporting system	Enhanced 911 notification for Internet Enabled Alarm Systems	Method and System for Interacting with a Vehicle over a Mobile Radiotelephone Network	Method and System for Remotely Monitoring the Operations of a Vehicle	Two-way Voice and Voice over IP receivers for Alarm Systems	Method and System for Remote Interaction with a Vehicle via Wireless Communication	Communication Device for Conveying Geographic Location Information Over Capacity Constrained Wireless Systems
Issued	Issued	Issued	Issued	Issued	Issued	Issued
6-Feb-08	23-Jan- 08	14-Dec- 07	14-Dec- 07	6-Feb-06	21-Jan- 05	6-Feb-04
8,265,605	8,369,487	7,936,256	7,880,599	7,734,020	7,323,970	7,272,494
11-Sep- 12	5-Feb- 13	3-May- 11	1-Feb- 11	8-Jun-10	29-Jan- 08	18-Sep- 07
Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*

	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ı			
LP	LP	LP	LP	LP	LP	LP	LP	LP
S	US	US	US	US	US	US	US	US
Method and system for managing subscriber identity modules on wireless networks for machine to-machine applications	IP Network Service Redirector Device and Method	Alarm System IP Network with PSTN Output	Analytical Scoring Engine for Remote Device Data	Satellite Based Tracking and Data Device with Multi- Function Radio Frequency Interface	Communication of Managing Vending Operations Based on Wireless Data	Digital Upgrade System and Method	Alarm System for use over Satellite Broadband	Intelligent Short Message Delivery System and Method
Issued	Issued	Issued	Issued	Issued	Issued	Issued	Issued	Issued
6-Jan-12	15-Aug- 11	30-Jul-11	22-Apr- 11	7-Apr-11	6-Jan-11	26-Feb- 10	17-Jul-09	27-Oct- 08
8,412,186	8,769,111	9,054,893	9,785,702	9,119,013	8,126,764	8,041,383	9,131,040	8,738,046
2-Apr- 13	1-Jul-14	9-Jun-15	10-Oct- 17	25-Aug- 15	28-Feb- 12	18-Oct- 11	8-Sep- 15	27-May- 14
Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*

8,543,097	1	9,214,082	8,798,260	8,990,915					
24-Sep-	9-Aug- 16	15-Dec- 15	5-Aug- 14	24-Mar- 15					
Numerex	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*					
TRADEMARK REEL: 007644 FRAME: 0067									

ďT	LP	LP	LP	LP	LP	LP	TP
$\overline{\text{US}}$	US	US	US	US	US	US	US
Method and System for Locating a Personal Emergency Response System (PERS) Device Based	Mobile Management Message Distribution and Active On- Network Determination	Motor Fault Detection System and Method	System and Method for Camera Registration	Method and System for Locating a Wireless Tracking Device	Method and System for Locating a Wireless Tracking Device Associated with a Network of Alarm Panels	System and Method for Using Alarm System Zones for Remote or Mobile Objects	Alarm System IP Network with PSTN Output
Issued	Issued	Issued	Issued	Issued	Issued	Issued	Issued
8-Jan-16	23-Sep- 15	19-Aug- 15	8-Jul-15	1-Jul-15	1-Jul-15	26-May- 15	16-Jan- 15
10,304,317	9,763,025	10,107,675	11,055,724	9,794,742	9,503,848	9,824,575	9,356,798
28-May- 19	12-Sep- 17	23-Oct- 18	6-Jul-21	17-Oct- 17	22-Nov- 16	21-Nov- 17	31-May- 16
Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*	Numerex Corp.*

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	RE		FRADEMARK 107644 FRAME: 007	71
Sierra	Numerex Corp.*	Numerex Corp.*	Sierra Wireless Inc.	
	16-Apr- 19	23-Jan- 18	23-Oct- 18	
	10,264,391		10,111,067	
	21-Dec- 17		13-Oct- 16	
	US201/0366931 A1		US-2016- 0302024	
.18	17		16	

						<b>—</b>			
						PAT			
						US			
System	Communication	Division Duplexing in	Duplex Frequency	Allocation for Half	for Resource	Method and Apparatus	- SB: 5th May 2020	disclosures are related	because the two
						Pending 8-Oct-20			
						8-Oct-20			
					0028918	US-2021-			
					21	28-Jan-			
				Inc.	Wireless,	Sierra			

Wireless America, Inc. yet. 1erra

## TRADEMARKS

egistered Trademarks				
Trademark:	Owner	Country	Regn No.:	Regn date:
AIRPRIME	Sierra Wireless, Inc.	Brazil	840563310	May 14, 2016
1560-261				
AIRPRIME	Sierra Wireless, Inc.	Canada	TMA807,260	Sep 22, 2011
1560-204				
AIRPRIME	Sierra Wireless, Inc.	US	4,110,874	Mar 13, 2012
1560-237-E				
AIRPRIME	Sierra Wireless, Inc.	China	8581057	Aug 7, 2010
1560-240				
AIRPRIME	Sierra Wireless, Inc.	Australia	1376348	Aug 6, 2010

1560-242				
AIRPRIME	Sierra Wireless, Inc.	EU	9300815	Aug 6, 2010
1560-238				
AIRPRIME	Sierra Wireless, Inc.	Hong Kong	301683081	Aug 6, 2010
1560-241				
AIRPRIME	Sierra Wireless, Inc.	Japan	5517547	Aug 31, 2012
1560-239				
AIRPRIME	Sierra Wireless, Inc.	Korea	40-1093529	Mar 12, 2015
1560-267				
AIRPRIME	Sierra Wireless, Inc.	New Zealand	828430	Aug 6, 2010
1560-243				
AIRPRIME	Sierra Wireless, Inc.	South Africa	2014/11094	May 2, 2014
1560-276-E				
AIRVANTAGE	Sierra Wireless, Inc.	Canada	TMA849,519	Apr 25, 2013
1560-203				
AIRVANTAGE	Sierra Wireless, Inc.	EU	8773004	Jun 16, 2010
1560-206				
AIRVANTAGE	Sierra Wireless, Inc.	New Zealand	817956	Jul 8, 2010
1560-208				
AIRVANTAGE	Sierra Wireless, Inc.	Australia	1339232	Jan. 4, 2010
1560-207				
AIRVANTAGE	Sierra Wireless, Inc.	Hong Kong	301509769	Dec. 28, 2009
1560-210				

AIRVANTAGE	Sierra Wireless, Inc.	Korea	45-0054823	Mar 12, 2015
1560-268				
AIRVANTAGE (Class 9)	Sierra Wireless, Inc.	China	8009329	Jan. 20, 2010
1560-209				
AIRVANTAGE (Class 38)	Sierra Wireless, Inc.	China	8009328	Jan. 20, 2010
1560-209				
AIRVANTAGE (Class 42)	Sierra Wireless, Inc.	China	8009327	Jan. 20, 2010
1560-209				
AIRVANTAGE (Class 9)	Sierra Wireless, Inc.	South Africa	2014/11094	May 2, 2014
1560-275-E				
AIRVANTAGE (Class 38)	Sierra Wireless, Inc.	South Africa	2014/11092	May 2, 2014
1560-280-E				
AIRVANTAGE (Class 42)	Sierra Wireless, Inc.	South Africa	2014/11093	May 2, 2014
1560-281-E				
AIRVANTAGE	Sierra Wireless, Inc.	US	4,243,932	Nov 20, 2012
1560-205				
CF3 1560-294-E	Sierra Wireless, Inc.	Canada	TMA953,746	Oct 28, 2016
CF3	Sierra Wireless, Inc.	US	5,153,592	Mar 7, 2017
1560-295-E				

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MACHINE	Siena wireless, inc.	Canada	1MA432,491	Aug. 20, 1994
1560-161				
INMOTION SOLUTIONS	Sierra Wireless, Inc.	Canada	TMA951,759	Oct 7, 2016
INMOTION SOLUTIONS	Sierra Wireless Inc	South Africa	2015/11070	Apr 29 2015
(Class 9) 1560-292-E	Siena wheless, inc.	Soun Amca	2015/110/0	Apr 29, 2013
INMOTION SOLUTIONS (Class 37)	Sierra Wireless, Inc.	South Africa	2015/11071	Apr 29, 2015
1560-293-E				
LEGATO 1560-264-E	Sierra Wireless, Inc.	Canada	TMA943,123	Jul 12, 2016
LEGATO	Sierra Wireless, Inc.	EU	12664066	Aug 1, 2014
1560-272				
LEGATO	Sierra Wireless, Inc.	Japan	5828117	Feb 19, 2016
1560-283-E				
LEGATO	Sierra Wireless, Inc.	US	4,698,092	Mar 10, 2015
1560-265				
LEGATO & Design	Sierra Wireless, Inc.	Canada	TMA946,523	Aug 17, 2016
1560-269-E				
LEGATO & Design	Sierra Wireless, Inc.	US	4,853,539	Nov 17, 2015
1560-270-E				
MANGOH	Sierra Wireless, Inc.	AU	1865495	Mar 5, 2017
1560-324				

MANGOH	Sierra Wireless, Inc.	CA	TMA1020154	April 26, 2019
1560-321				
MANGOH	Sierra Wireless, Inc.	EU	016473481	Aug 14, 2017
1560-320-E				
MANGOH	Sierra Wireless, Inc.	US	5,578,114	Oct 9, 2018
1560-322-E				
MANGOH & Design	Sierra Wireless, Inc.	Canada	TMA951,403	Oct 4, 2016
1560-303-E				
MANGOH & Design	Sierra Wireless, Inc.	US	5,184,368	Apr 18, 2017
1560-304-E				
MANGOH & Design (horizontal)	Sierra Wireless, Inc.	Canada	TMA956,052	Nov 22, 2016
1560-306-E				
MANGOH & Design (horizontal)	Sierra Wireless, Inc.	US	5,174,239	Apr 4, 2017
1560-307-E				
MANGOH & Design (horizontal)	Sierra Wireless, Inc.	EU	15478787	Oct. 27, 2016
1560-310-E				
OCTAVE	Sierra Wireless, Inc.	EU	018049451	Sep 3, 2019
1560-333				
PROJECT MANGOH	Sierra Wireless, Inc.	Canada	TMA943,947	Jul 21, 2016
1560-296-E				
PROJECT MANGOH	Sierra Wireless, Inc.	EU	14754212	Nov 2, 2015
1560-305-E				
PROJECT MANGOH	Sierra Wireless, Inc.	US	5,102,879	Dec 20, 2016
1560-297-E				

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SIERRA WIRELESS	Sierra Wireless, Inc.	Australia	1343459	Feb 3, 2010
1560-214				
SIERRA WIRELESS	Sierra Wireless, Inc.	Canada	TMA816,324	Jan 27, 2012
1560-196				
SIERRA WIRELESS	Sierra Wireless, Inc.	EU	8849911	Jul 27, 2010
1560-213				
SIERRA WIRELESS	Sierra Wireless, Inc.	EU	15795008	Sep 2, 2016
1560-314-E				
SIERRA WIRELESS in Chinese Characters	Sierra Wireless, Inc.	China	3302964	Oct. 21, 2003
1560-177				
SIERRA WIRELESS (Class 9)	Sierra Wireless, Inc.	China	8078368	Apr 14, 2014
1560-217				
SIERRA WIRELESS (Class 42)	Sierra Wireless, Inc.	China	8078367	Feb 22, 2010
1560-224				
SIERRA WIRELESS	Sierra Wireless, Inc.	Chile	1234957	Jan 25, 2017
1560-313-E				
SIERRA WIRELESS	Sierra Wireless, Inc.	Hong Kong	301542753	Feb 10, 2010
1560-216				
SIERRA WIRELESS	Sierra Wireless, Inc.	Japan	5614114	Sep 13, 2013
1560-218				
SIERRA WIRELESS	Sierra Wireless, Inc.	Madrid	1387060	Nov 8, 2016
1560-316				

SIERRA WIRELESS	Sierra Wireless, Inc.	Madrid	1387060	Jan. 27, 2020
1560-316MX				
SIERRA WIRELESS	Sierra Wireless, Inc.	Madrid	1387060	Jun 11, 2018
1560-316PH				
SIERRA WIRELESS	Sierra Wireless, Inc.	Madrid	1387060	May 7, 2019
1560-316US				
SIERRA WIRELESS	Sierra Wireless, Inc.	New Zealand	819031	Sep 3, 2013
1560-215				
SIERRA WIRELESS (Class 9)	Sierra Wireless, Inc.	South Africa	2014/11088	May 2, 2014
1560-277-E				
SIERRA WIRELESS (Class 42)	Sierra Wireless, Inc.	South Africa	2014/11089	May 2, 2014
1560-278-E				
SIERRA WIRELESS (Class 45)	Sierra Wireless, Inc.	South Africa	2014/11090	May 2, 2014
1560-279-E				
SIERRA WIRELESS	Sierra Wireless, Inc.	US	4,177,465	Jul 24, 2012
1560-212				
in Chinese Characters	Sierra Wireless, Inc.	Hong Kong	200313261	Sept. 3, 2002
1560-182				
& Design	Sierra Wireless, Inc.	Australia	1372559	Jul 16, 2010
1560-229				

SIERRA WIRELESS & Design (Class 9 & 42)	Sierra Wireless, Inc.	Australia	1519957	Oct 15, 2012
1560-255				
SIERRA WIRELESS & Design	Sierra Wireless, Inc.	Canada	TMA930,708	Mar 4, 2016
1560-211-E				
SIERRA WIRELESS & Design	Sierra Wireless, Inc.	EU	9251191	May 2, 2011
1560-227				
& Design (Class 9)	Sierra Wireless, Inc.	China	8550458	Jun 14, 2014
1560-231				
& Design (Class 38)	Sierra Wireless, Inc.	China	8550457	Aug 6, 2010
1560-244				
& Design (Class 41)	Sierra Wireless, Inc.	China	8550550	Aug 6, 2010
1560-245				
& Design (Class 42)	Sierra Wireless, Inc.	China	8550549	Aug 6, 2010
1560-246				
SIERRA WIRELESS & Design	Sierra Wireless, Inc.	Hong Kong	301665108	Jul 15, 2010
1560-232				
& Design (Class 41)	Sierra Wireless, Inc.	India	2002172	Aug 2, 2010
1560-249				

SIERRA WIRELESS & Design	Sierra Wireless, Inc.	Japan	5601546	Jul 26, 2013
1560-230				
SIERRA WIRELESS & Design (Class 9)	Sierra Wireless, Inc.	India	2002170	Aug 2, 2010
1560-233-E				
& Design (Class 9)	Sierra Wireless, Inc.	Korea	40-1196972	Aug 18, 2016
1560-286-E				
SIERRA WIRELESS & Design	Sierra Wireless, Inc.	Korea	45-0045992	Aug 27, 2013
1560-236				
& Design	Sierra Wireless, Inc.	New Zealand	827305	Sep 3, 2013
1560-228				
SIERRA WIRELESS & Design	Sierra Wireless, Inc.	Taiwan	1530738	Aug 1, 2012
1560-235				
& Design	Sierra Wireless, Inc.	Singapore	T1009218B	Jul 21, 2010
1560-234				
& Design	Sierra Wireless, Inc.	US	4,287,452	Feb 12, 2013
1560-226				
SIERRA WIRELESS SKYLIGHT	Sierra Wireless, Inc.	Canada	TMA918,986	Oct 30, 2015
1560-262-E				

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SIERRA WIRELESS SKYLIGHT	Sierra Wireless, Inc.	$\mathbb{S}$	4,958,080	May 17, 2016
1560-263-E				
SIERRA WIRELESS HEART OF THE WIRELESS MACHINE & Design	Sierra Wireless, Inc.	Australia	931923	Oct. 10, 2005
1560-129				
SIERRA WIRELESS HEART OF THE WIRELESS MACHINE & Design	Sierra Wireless, Inc.	India	1321252	Nov. 19, 2004
1560-132				
SIERRA WIRELESS HEART OF THE WIRELESS MACHINE & Design	Sierra Wireless, Inc.	Taiwan	1078183	Jan. 1, 2004
1560-136				
SW00SH Design	Sierra Wireless, Inc.	US	2,726,412	June 17, 2003
1560-138				
AIRLINK	Sierra Wireless	Australia	1609556	Mar 5, 2014
1559-140-E	America, inc.			
AIRLINK	Sierra Wireless America, Inc.	Canada	TMA775,836	Aug 31, 2010
1559-108				
AIRLINK	Sierra Wireless America, Inc.	EU	11935483	Nov 20, 2013
1559-141				
AIRLINK 1559-109-E	Sierra Wireless America, Inc.	US	3,902,433	Jan. 11, 2011
AIRLINK	Sierra Wireless	Internation al	957777	Feb. 4, 2008
1559-119	America, mc.			

AIRLINK	Ciarro Wirolaga	Topos	001111	-11 1 2000
	America Inc.	าสุวสม	93////	Feb. 4, 2008
1559-119JP				
AIRLINK	Sierra Wireless America, Inc.	New Zealand	783705	Feb. 4, 2008
1559-110-E				
ALEOS	Sierra Wireless	Canada	TMA752,709	Nov. 10, 2009
1559-112	America, Inc.			
ALEOS	Sierra Wireless	Taiwan	1343665	Jan. 1, 2009
	America, Inc.			
1559-113				
ALEOS	Sierra Wireless	US	3,510,793	Oct. 7, 2008
1559-122				
ALEOS	Sierra Wireless	International	953067	Feb. 4, 2008
1550 126	America, Inc.			
ALEOS	Sierra Wireless	Australia	953067	Feb. 4, 2008
	America, Inc.			
1559-126AU				
ALEOS	Sierra Wireless	EU	953067	Feb. 4, 2008
1550-126EII	America, Inc.			
ALEOS	Sierra Wireless	Jp	953067	Feb 4 2008
	America, Inc.			
1559-126JP				
ALEOS	Sierra Wireless	Singapore	953067	Feb. 4, 2008
1559-126SG	A MINOLING, MAN.			
ALEOS	Sierra Wireless	New Zealand	783706	Aug. 3, 2007
1559-128-E	America, Inc.			
SIERRA WIRELESS AIRLINK	Sierra Wireless, Inc.	Korea	40-1240459	Mar. 17, 2017
1559-143				

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UPLINK	Sierra Wireless America, Inc.	US	4,683,816	Feb. 10, 2015
1559-148				
UPLINK	Sierra Wireless	US	4,013,326	Aug. 16, 2011
	America, Inc.			
1559-149				
UPLINK	Sierra Wireless	US	3,279,435	Aug. 14, 2007
	America, Inc.			
1559-150				
UPLINK GPS	Sierra Wireless	US	4,546,091	Jun. 10, 2014
	America, Inc.			
1559-147				
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## Pending Trademark Applications

		2		
Trademark:	Owner	Country	Appln No.:	Filing date:
OCTAVE	Sierra Wireless, Inc.	CA	1,926,213	Oct 19, 2018
1560-330				
OCTAVE	Sierra Wireless, Inc.	CA	1,931,736	Nov 21, 2018
1560-332				
OCTAVE	Sierra Wireless, Inc.	US	75,802/88	Nov 22, 2018
1560-331				
SIERRA WIRELESS	Sierra Wireless, Inc.	CA	1,824,191	Feb 23, 2017
1560-319				
SIERRA WIRELESS	Sierra Wireless, Inc.	Brazil	840616023	Aug 20, 2013
1560-260				
SIERRA WIRELESS	Sierra Wireless, Inc.	Vietnam	4-2015- 32739	Nov 20, 2015
1560-302				

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Registered Copyrights

Country	Owner	Copyright Registration No./Registration Date	Title	Category of Work / Status	Copyright Description
CA	Sierra Wireless, Inc.	490003 February 19, 2001	AirBoard	Literary/Artistic / Registered	Instruction manuals for wireless modems and graphics associated with the wireless modems