

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT7615903

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	RELEASE OF SECURITY INTEREST	
CONVEYING PARTY DATA		
	Name	Execution Date
	CANADIAN IMPERIAL BANK OF COMMERCE	10/21/2022
RECEIVING PARTY DATA		
Name:	SIERRA WIRELESS, INC.	
Street Address:	13811 WIRELESS WAY	
City:	RICHMOND	
State/Country:	CANADA	
Postal Code:	V6V 3A4	
Name:	SIERRA WIRELESS AMERICA INC.	
Street Address:	13811 WIRELESS WAY	
City:	RICHMOND	
State/Country:	CANADA	
Postal Code:	V6V 3A4	
PROPERTY NUMBERS Total: 9		
Property Type	Number	
Patent Number:	9449497	
Patent Number:	9350871	
Patent Number:	11055724	
Patent Number:	9131040	
Patent Number:	8369487	
Patent Number:	8798260	
Patent Number:	9462135	
Patent Number:	9235855	
Patent Number:	9214082	
CORRESPONDENCE DATA		
Fax Number:	(778)329-0752	
<i>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.</i>		
Email:	ipmailvancouver@blg.com	
Correspondent Name:	BORDEN LADNER GERVAIS LLP	

Address Line 1: 1200 WATERFRONT CENTRE, 200 BURNARD STR.
Address Line 4: VANCOUVER, CANADA V7X 1T2

ATTORNEY DOCKET NUMBER:	500007/005796
NAME OF SUBMITTER:	CHELLISA THORNTON
SIGNATURE:	/Chellisa Thornton/
DATE SIGNED:	10/28/2022

Total Attachments: 56

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RELEASE

DATED: October 21, 2022

RECITALS:

- A. **Canadian Imperial Bank of Commerce**, as administrative agent, having a branch office and postal address at 595 Bay Street, 7th Floor, Toronto, Ontario, M5G 2C2 (“**CIBC**”), was granted a continuing assignment, transfer, pledge and security interest and specific and fixed charge in, among other things, all right, title and interest of Sierra Wireless, Inc. and Sierra Wireless America, Inc. in and to the intellectual property set forth in Schedule "A" hereto owned by Sierra Wireless, Inc. and Sierra Wireless America, Inc., as applicable (collectively, the "**Intellectual Property**"), pursuant to (a) an intellectual property security agreement made by Sierra Wireless, Inc. and Sierra Wireless America, Inc., in favour of CIBC, as administrative agent for and on behalf of the Lenders (as defined therein) (in such capacity, the "**Administrative Agent**") dated September 25, 2020, (b) an intellectual property security agreement made by Sierra Wireless, Inc. and Sierra Wireless America, Inc. in favour of the Administrative Agent dated January 19, 2022, (c) a restated patent security agreement made by Sierra Wireless America, Inc. in favour of the Administrative Agent dated January 19, 2022, (d) an amended and restated trademark security agreement made by Sierra Wireless America Inc., dated January 19, 2022, in favour of the Administrative Agent, (e) a patent security agreement made by Sierra Wireless America, Inc. in favour of CIBC, as administrative agent for each of the Lenders (as defined therein) dated July 31, 2018, and (f) any agreement not otherwise specifically described herein pursuant to which CIBC is granted an assignment, transfer or pledge of, or security interest or fixed charge in, the Released IP (as defined below).
- B. CIBC in its individual capacity or as the Administrative Agent, as applicable, caused such security interests to be recorded at the Canadian Intellectual Property Office, the United States Patent and Trademark Office, the United States Copyright Office, or such other office or registry as was appropriate against the Intellectual Property, as applicable, with the recordation details as set out on Schedule “B” hereto.
- C. CIBC in its individual capacity and as the Administrative Agent, as applicable, wishes to terminate and to release all of its security interests in the Intellectual Property set out in Schedule “C” hereto (the “**Released IP**”).

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, CIBC in its individual capacity and as the Administrative Agent hereby forever releases and discharges all security interests in the Released IP.

[Signature Page Follows]

DATED as of the date set forth above.

**CANADIAN IMPERIAL BANK OF COMMERCE,
as Administrative Agent**

By:



Name: Mark McQueen

Title: President & EMD, Authorized Signatory



Name: Adam Weiers

Title: Director, Authorized Signatory

SCHEDULE "A"

INTELLECTUAL PROPERTY

PATENTS

Type	Country	Title	Status	Official Filing Date	Publication No.	Publication Date	Patent/Registration No.	Issue Date	Expiry Date	Assignee
PAT	US	Methods and apparatuses for supporting multi transport block grant data transmission	Published	24-Feb-21	US 2021-273751	2-Sep-21				Sierra Wireless, Inc.
PAT	US	Method and apparatus for resource allocation for half duplex frequency division duplexing in a wireless communication system	Published	8-Oct-20	US 2021-028918	28-Jan-21				Sierra Wireless, Inc.
PAT	US	Method and Apparatus for Facilitating Transmissions In A Wireless Communication System	Issued	2-Oct-20	US 2021-105099	8-Apr-21	11,381,349	5-Jul-22	2-Oct-40	Sierra Wireless, Inc.
PAT	US	Methods and apparatuses for small data transmissions	Published	5-Sep-19	US 2020-092905	19-Mar-20				Sierra Wireless, Inc.

PAT	US	Method and apparatus for multi-transport block grant transmissions	Issued	9-Aug-19	US 2020-053750	13-Feb-20	11,419,131	16-Aug-22	14-Aug-39	Sierra Wireless, Inc.
PAT	US	Methods and systems for remote software update	Issued	1-Aug-19	US 2020-042313	6-Feb-20	11,169,796	9-Nov-21	1-Aug-39	Sierra Wireless, Inc.
LP	US	LAN/WWAN GATEWAY CARRIER CUSTOMIZATION	Issued	10-Nov-06	US 2007-0104169	10-May-07	8,054,778	8-Nov-11		Sierra Wireless America Inc.
LP	US	GATEWAY NETWORK MULTIPLEXING	Issued	10-Nov-06	US 2007-0104168	10-May-07	8,121,071	21-Feb-12		Sierra Wireless America Inc.
LP	CA	Cognitive Wireless System	Issued	7-Jan-11	CA 2,730,269	14-Jan-11	2,730,269	17-Apr-18		Sierra Wireless
PAT	CN	Method and Apparatus for Facilitating Push Communication across a Network Boundary	Issued	12-May-10	CN 102714636 A	3-Oct-12	ZL 2010800600 40.5	25-Nov-15	12-May-30	Sierra Wireless, Inc.
PAT	US	Minimise PDP Activations	Issued	17-Nov-09	US 2010-0124191	20-May-10	8,228,848	24-Jul-12	18-Jun-30	Sierra Wireless, Inc.
PAT	CN	Method and Apparatus for Managing Wireless Communication Based on Network Traffic Level	Issued	22-Jun-11	CN 102948192 A	27-Feb-13	ZL2011800 31107.7	29-Jun-16	22-Jun-31	Sierra Wireless, Inc.
PAT	US	METHOD AND APPARATUS FOR MANAGING	Issued	21-Jun-11	US 2010-0099430	26-Apr-12	8,964,549	24-Feb-15	4-Nov-31	Sierra Wireless, Inc.

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

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

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

PAT	US	Method and System for Wireless Communication with Machine-to-Machine Devices	Issued	13-Dec-13	US-2014-0105009	17-Apr-14	9,445,302	13-Sep-16	12-Jul-33	Sierra Wireless, Inc.
PAT	US	Wireless Communication with Machine-to-Machine Devices	Issued	14-Jun-13	US-2013-0336111	19-Dec-13	9,380,430	28-Jun-16	6-Mar-34	Sierra Wireless, Inc.
VAL	DE	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Validation	4-Oct-13	2904864	12-Aug-15	2904864	18-Sep-19		Sierra Wireless, Inc.
VAL	FR	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Validation	4-Oct-13	2904864	12-Aug-15	2904864	18-Sep-19		Sierra Wireless, Inc.
VAL	GB	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Validation	4-Oct-13	2904864	12-Aug-15	2904864	18-Sep-19		Sierra Wireless, Inc.
PAT	US	Method, Apparatus and System for Uplink Radio Resource Allocation in an LTE Communication System	Issued	4-Oct-13	US-2014-0098781	10-Apr-14	10,455,575	22-Oct-19		Sierra Wireless, Inc.

PAT	DE	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Validati on	2-Apr-14	2989814	2-Mar-16	2989814, DE60 2014 046 442.4.	8-May-19	Sierra Wireless, Inc.
PAT	EP	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Issued	2-Apr-14	2989814	2-Mar-16	2989814	8-May-19	Sierra Wireless, Inc.
PAT	FR	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Validati on	2-Apr-14	2989814	2-Mar-16	2989814	8-May-19	Sierra Wireless, Inc.
PAT	UK	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Validati on	2-Apr-14	2989814	2-Mar-16	2989814	8-May-19	Sierra Wireless, Inc.
PAT	NL	Method and System for Providing Differentiated Wireless Network Access and Billing to Subscribers	Validati on	2-Apr-14	2989814	2-Mar-16	2989814	8-May-19	Sierra Wireless, Inc.
LP	US	Method and System for Providing Differentiated	Issued	2-Apr-14	US-2014-0295790	2-Oct-14	9,948,789	17-Apr-18	Sierra Wireless, Inc.

		Wireless Network Access and Billing to Subscribers							
PAT	CN	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Issued	28-Dec-12	CN105009630A	28-Oct-15	ZL201380073980.1	27-Sep-19	8-Aug-33 Sierra Wireless, Inc.
VAL	DE	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Validati on	8-Aug-13	2939464	4-Nov-15	2939464	7-Mar-18	Sierra Wireless, Inc.
VAL	FR	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Validati on	8-Aug-13	2939464	4-Nov-15	2939464	7-Mar-18	Sierra Wireless, Inc.
VAL	GB	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Validati on	8-Aug-13	2939464	4-Nov-15	2939464	7-Mar-18	Sierra Wireless, Inc.
PAT	US	Method and System for Hybrid Automatic Repeat Request Combining on an LTE Downlink Control Channel	Issued	28-Dec-12	US-2014-0185534	3-Jul-14	9,144,066	22-Sep-15	21-May-33 Sierra Wireless, Inc.

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

PAT	US	Wireless Device Customization Resources	Issued	24-Feb-15	US-2015-0245215	27-Aug-15	9,894,523	13-Feb-18	24-Feb-35	Sierra Wireless, Inc.
PAT	EP	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Allowed	26-Sep-14	EP3050389					Sierra Wireless, Inc.
PAT	DE	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Allowed	26-Sep-14	EP3050389					Sierra Wireless, Inc.
PAT	FR	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Allowed	26-Sep-14	EP3050389					Sierra Wireless, Inc.
PAT	GB	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Allowed	26-Sep-14	EP3050389					Sierra Wireless, Inc.
PAT	NL	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Allowed	26-Sep-14	EP3050389					Sierra Wireless, Inc.
PAT	US	Method and Apparatus for Communicating with LTE Terminals Having Restricted Capabilities	Issued	26-Sep-13	US 2015/0085689	26-Mar-15	9,716,988	25-Jul-17	26-Sep-34	Sierra Wireless, Inc.

PAT	US	Abbreviated Blind Detection in Wireless Communication Systems including LTE	Issued	15-Mar-14	US-2015-0264665	17-Sep-15	9,681,256	13-Jun-17	Sierra Wireless, Inc.
PAT	US	Method, Apparatus And System For Gesture Based Security	Issued	9-Dec-14	US-2016-0162676	09-Jun-16	10,346,603	09-Jul-19	Sierra Wireless, Inc.
PAT	US	Method and Apparatus for Communicating System Information and Random Access in a Wireless System	Issued	7-Apr-16	US-2016-0302024	13-Oct-16	10,111,067	23-Oct-18	Sierra Wireless, Inc.
PAT	EP	Method and Apparatus for Resource Allocation for Half Duplex Frequency Division Duplexing in a Wireless Communication System	Published	13-May-16	3295701	21-Mar-18			Sierra Wireless, Inc.
PAT	US	Method and Apparatus for Resource Allocation for Half Duplex Frequency Division Duplexing in a Wireless Communication System	Issued	16-May-16	US-2016-0338089	17-Nov-16	10,819,496	27-Oct-20	Sierra Wireless, Inc.
PAT	EP	Method and System for Transmitting	Validated	18-Apr-18	EP33354064		EP33354064	20-Jan-21	Sierra Wireless, Inc.

		Control Information for User Equipment							
PAT	US	Method and System for Transmitting Control Information for User Equipment	Issued	26-Sep-16	US-2017-0094644-A1	30-Mar-17	10,225,829	5-Mar-19	Sierra Wireless, Inc.
PAT	EP	Method and System for Paging User Equipment	Pending	19-Apr-18					
PAT	US	Method and System for Paging User Equipment	Issued	3-Oct-16	US-2017-0099649-A1	6-Apr-17	11,382,060	5-Jul-22	Sierra Wireless, Inc.
PAT	EP	Method and Apparatus for Paging Terminals in a Wireless Communication System	Pending	24-May-18					Sierra Wireless, Inc.
LP	US	Method and Apparatus for Paging Terminals in a Wireless Communication System	Issued	4-Nov-16	US-2017-0135066-A1	11-May-17	10271302	23-Apr-19	Sierra Wireless, Inc.
PAT	EP	Methods and Apparatuses for User Equipment Access to a Wireless Communication System	Published	29-Sep-17	EP3520545	7-Aug-19	EP3520545	29-Dec-21	Sierra Wireless, Inc.
PAT	US	Methods and Apparatuses for User Equipment Access to a Wireless	Issued	29-Sep-17	US2018/098360	5-Apr-18	11,202,324	14-Dec-21	Sierra Wireless, Inc.

		Communication System							
PAT	CN	Method and Apparatus for Secure Computing Device Start Up	Published	22-Mar-18	CN110494856A	22-Nov-19			Sierra Wireless, Inc.
PAT	EP	Method and Apparatus for Secure Computing Device Start Up	Pending	22-Mar-19	3602375	5 Feb. 2020			Sierra Wireless, Inc.
PAT	WO	Method and Apparatus for Secure Computing Device Start Up	Published	22-Mar-18	WO2018/176125	4-Oct-18			Sierra Wireless, Inc.
PAT	US	Method and Apparatus for Secure Computing Device Start Up	Issued	28-Mar-18	US20180285570 A1	4-Oct-18	11,048,801	29-Jun-20	Sierra Wireless, Inc.
PAT	US	Protection Circuit Involving Positive Temperature Coefficient Device	Issued	2-Mar-18	US20190273373	5-Sep-19	10,868,416	15-Dec-20	Sierra Wireless, Inc.
PAT	US	Method and System for Using Enhanced Primary Synchronization Signal	Issued	2-May-18	2018/0324722	8-Nov-18	10,764,847	1-Sep-20	Sierra Wireless, Inc.
PAT	EP	Method and Apparatus for Indicating a System Information Block Change	Published	8-Aug-18	18844149.7				
PAT	US	Method and Apparatus for Indicating a System Information Block Change	Issued	8-Aug-18	US2019/053156	14-Feb-19	11,172,442	9-Nov-21	8-Aug-38 Sierra Wireless, Inc.

PAT	US	Method and Apparatus for Secure Software Update	Issued	15-Jun-18	US20190384586		10,977,024	13-Apr-21		Sierra Wireless, Inc.
PAT	US	2 Tone in-phase pi/2 BPSK Sub-PRB Modulation	Issued	15-Nov-18	US20190149381 A1	16-May-19	10,931,492	23-Feb-21		Sierra Wireless, Inc.
PAT	US	Methods and Apparatuses For Phase Rotation in 2 Sub Carrier Pi/2 Binary Phase Shift Keying Communication	Issued	16-Jan-19	US20190222447 A1	18-Jul-19	10,630,445	21-Apr-20		Sierra Wireless, Inc.
PAT	WO	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	Published	16-Jan-19	WO2019140519	25-Jul-19				Sierra Wireless, Inc.
PAT	US	DMRS for a 2 sub-carrier pi/2 BPSK Modulation in an OFDMA system	Published	16-Jan-19	US20190222388	18-Jul-19				Sierra Wireless, Inc.

PAT	US	Method and Apparatus for Multi-Transport Block Grant Transmissions (Multi-DCI TBI HARQ)	Published	9-Aug-18	US20200053769	13-Feb-20				Sierra Wireless Inc.
PAT	WO	Method and Apparatus for Communication of System Information in a Wireless System	Pending	3-Sep-19	WO2020/047655	12-Mar-20				Sierra Wireless Inc.
PAT	US	Method and Apparatus for Communication of System Information in a Wireless System	Published	5-Sep-19	US2020/0092905	19-Mar-19				Sierra Wireless Inc.
PAT	US	Method and Apparatus for Supporting Two-step Random Access Channel Usage in a Wireless Communication System	Issued	14-Feb-20	US 2020-267774	20-Aug-20	11,395,343	19-Jul-22	12-Jul-40	Sierra Wireless, Inc.
PAT	US	Method and Apparatus for Supporting Two-Step Random Access Channel Usage in a Wireless Channel Using a	Published	14-Feb-20	US2020/0267774	20-Aug-20				Sierra Wireless Inc.
PAT	US	Method and apparatus for time advance validation using reference signal received power	Issued	13-Feb-20	US 2020-260397	26-Jul-22	11,399,355	26-Jul-22	31-May-40	Sierra Wireless, Inc.

PAT	US	Methods and Apparatuses for Supporting Multi Transport Block Grant Data Transmission in a Wireless communication System	Published	27-Feb-20	US2021/0273751	2-Sep-21				Sierra Wireless, Inc.
VAL	DE	System and Method for Remotely Monitoring Modem Status	Validation	30-Jul-02	EP1415436		EP1415436	12-Sep-07		Sierra Wireless, Inc.
VAL	FR	System and Method for Remotely Monitoring Modem Status	Validation	30-Jul-02	EP1415436		EP1415436	12-Sep-07		Sierra Wireless, Inc.
VAL	GB	System and Method for Remotely Monitoring Modem Status	Validation	30-Jul-02	EP1415436		EP1415436	12-Sep-07		Sierra Wireless, Inc.
LP	US	System and Method for Remotely Monitoring Modem Status	Issued	30-Jul-01	US 2003-0023720	30-Jan-03	7,600,013	06-Oct-09	Projected to March 16, 2024 (30-Jul-21+960 PTA)	Sierra Wireless, Inc.
LP	US	System and Method for Remotely Monitoring Modem Status	Issued	20-Dec-01	US 2003-0120818	26-Jun-03	7,023,878	4-Apr-06		Sierra Wireless, Inc.

		Monitoring Modern Status							
PAT	US	Always-on Virtual Private Network Access	Issued	26-Jul-02	US 2004-0068666	8-Apr-04	8,707,406	22-Apr-14	Sierra Wireless, Inc.
VAL	DE	Efficient Notification Of New Electronic Mail Arrival	Validati on	2-Sep-04	EP1661305	31-May-06	1661305	8-Jan-14	Sierra Wireless, Inc.
VAL	FR	Efficient Notification Of New Electronic Mail Arrival	Validati on	2-Sep-04	EP1661305	31-May-06	1661305	8-Jan-14	Sierra Wireless, Inc.
VAL	GB	Efficient Notification Of New Electronic Mail Arrival	Validati on	2-Sep-04	EP1661305	31-May-06	1661305	8-Jan-14	Sierra Wireless, Inc.
VAL	HK	Efficient Notification Of New Electronic Mail Arrival (Previously incorrect labelled -872, Validation from EP-780, HK stage II)	Validati on	2-Sep-04	HK1092619	2-Sep-07	HK1092619	11-Apr-14	Sierra Wireless, Inc.
LP	CN	Dynamic Bus Based Virtual Channel Multiplexing Device Driver Architecture	Issued	6-Oct-06	CN101490637	22-Jul-09	ZL200680041579.X	7-Sep-11	Sierra Wireless, Inc.
PAT	DE	METHOD AND APPARATUS FOR GLOBAL NAVIGATION SATELLITE SYSTEM RECEIVER COUPLED TO A	Validati on	22-Sep-09	2331984	15-Jun-11	2331984	29-May-13	Sierra Wireless, Inc.

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

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

PAT	US	Method and Apparatus for Associating Universal Integrated Circuit Card and Mobile Equipment	Issued	17-Nov-09	US 2011/0287740	24-Nov-11	9,628,474	18-Apr-17	17-Nov-29	Sierra Wireless, Inc.
	US	Method for switching a terminal over from a first radiocommunications network to a second radiocommunications network, corresponding computer program product, storage means and terminal	Issued	1-Oct-2014	US 2015-0094011		9,635,532	25-Apr-17	1-Oct-34	Sierra Wireless, S.A.
	US	Method and device for controlling the access of equipment for a network of the machine-to-machine type to the resources of a cellular telephony network	Issued	28-Feb-2013	US 2014-0087743		9,148,746	29-Sep-2015		Sierra Wireless, S.A.
	US	System for communicating between a non-connected equipment and a management server	Issued	1-Oct-2012	US 2013-0272195		8,902,818	2-Dec-2014		Sierra Wireless, S.A.
	US	Methods for transmitting and managing voice	Issued	16-Oct-2009	US 2010-0099400		8,289,847	16-Oct-12		Sierra Wireless, S.A.

		frames, computer program product, means of storage and corresponding devices							
	US	Device for electromagnetic shielding and dissipation of heat released by an electronic component, and corresponding electronic circuit	Issued	19-Jun-2009	US 2011-0194259		8,422,234	16-Apr-13	Sierra Wireless, S.A.
	US	Method of locating a radiocommunication device, corresponding computer program product, storage means and radiocommunication module	Issued	16-Jun-2009	US 2011-0312323		8,301,170	30-Oct-12	Sierra Wireless, S.A.
LP	MX	METODO Y SISTEMAS PARA ADMINISTRAR MODULOS DE IDENTIDAD DE SUSCRIPTORES EN REDES INALAMBRICAS PARA APLICACIONES MAQUINA-A-MAQUINA.	Issued	9-Jan-12		4-Oct-13	314,471	23-Oct-13	Sierra Wireless America, Inc.

LP	MX	ENTREGA DE DATOS Y AUDIO DE EVENTOS DEL SISTEMADE ALARMA SOBRE REDES HIBRIDAS.	Issued	6-Mar-12	WO 2012/138443	20-Jan-15	327,784			Sierra Wireless America, Inc.
LP	MX	ENTREGA DE DATOS Y AUDIO DE EVENTOS DEL SISTEMA DE ALARMA.	Issued	4-Apr-12	WO 2012/138683	25-Oct-13	327,143	20-Jan-15		Sierra Wireless America, Inc.
PAT	MX	CONTROL IMPERACTIVO DE SISTEMAS DE ALARMA POR INTERFAZ DE TELEFONO UTILIZANDO UNA PUERTA DE ENLACE INTERMEDIA.	Issued	27-Apr-12	WO 2012/149262	13-Feb-20	327,926	16-Feb-15		Sierra Wireless America, Inc.
PAT	WO	Method and Apparatus for Multi-Transport Block Grant Transmissions (Multi-TB Scheduling with Time Diversity)	Published	9-Aug-18	WO 2020/028993					Sierra Wireless, Inc.
PAT	EP	METHOD AND APPARATUS FOR MULTI-TRANSPORT BLOCK GRANT TRANSMISSIONS	Pending	9-Aug-18		23-Sep-20				Sierra Wireless, Inc.

PAT	EP	2 Tone in-phase pi/2 BPSK Sub-PRB Modulation	Published	14-Nov-18	3711268	25-Nov-20				Sierra Wireless, Inc.
	EP	"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"	Pending	16-Jan-19	EP3741090	9-Jun-21				Sierra Wireless, Inc.
PAT	EP	Methods and Systems for Remote Software Update	Pending	1-Aug-19	EP3830689					Sierra Wireless, Inc.
PAT	EP	Method and Apparatus for Communication of System Information in a Wireless System	Pending	3-Sep-19		25-Jul-19				Sierra Wireless, Inc.
PAT	EP	Methods and Apparatuses For Phase Rotation in 2 Sub Carrier Pi/2 Binary Phase Shift Keying Communication	Published	16-Jan-20	EP19740781.0					Sierra Wireless, Inc.

		(Focus of claims is the successful, in US, phase rotation. Note: MBM reference is as for the combined PCT filing ~306)							
PAT	EP	Method and Apparatus for Time Advance Validation Using Reference Signal Received Power	Pending	13-Feb-20		20-Aug-20			Sierra Wireless, Inc.
PAT	WO	Method and Apparatus for Supporting Two-Step Random Access Channel Usage in a Wireless Channel Using a	Published	14-Feb-20	WO 2020/163969				Sierra Wireless, Inc.
					WO 2021/108897				
PAT	WO	METHOD AND APPARATUS FOR DEVICE TO DEVICE COMMUNICATION FOR CELLULAR DEVICES	Pending	27-Nov-20					Sierra Wireless, Inc.
PAT	WO	Methods and Apparatuses for Supporting Multi Transport Block Grant Data Transmission in a Wireless communication System	Pending	24-Feb-21		4-Oct-13			Sierra Wireless, Inc.

LP	US	LAN/WLAN GATEWAY CARRIER CUSTOMIZATION	Issued	10-Nov-06	US 2007-0104169	10-May-07	8,054,778	8-Nov-11	Sierra Wireless America Inc.
LP	US	System for Communicating Messages Via a Forward Overhead Control Channel for a Programmable Logic Control Device	Issued	20-Sep-00			6,718,177	6-Apr-04	Numerex Corp.*
LP	US	Interconnect System and Method for Multiple Protocol Short Message Services	Issued	2-Jan-02			6,882,843	19-Apr-05	Numerex Corp.*
LP	US	Communications Device for Conveying Geographic Location Information Over Capacity Constrained Wireless Systems	Issued	30-Sep-02			6,718,237	6-Apr-04	Numerex Corp.*
LP	US	Communication Device for Conveying Geographic Location Information Over Capacity Constrained Wireless Systems	Issued	6-Feb-04			7,272,494	18-Sep-07	Numerex Corp.*
LP	US	Method and System for Remote Interaction with a Vehicle via Wireless Communication	Issued	21-Jan-05			7,323,970	29-Jan-08	Numerex Corp.*

LP	US	Two-way Voice and Voice over IP receivers for Alarm Systems	Issued	6-Feb-06				7,734,020	8-Jun-10		Numerex Corp.*
LP	US	Method and System for Remotely Monitoring the Operations of a Vehicle	Issued	14-Dec-07				7,880,599	1-Feb-11		Numerex Corp.*
LP	US	Method and System for Interacting with a Vehicle over a Mobile Radiotelephone Network	Issued	14-Dec-07				7,936,256	3-May-11		Numerex Corp.*
LP	US	Enhanced 911 notification for Internet Enabled Alarm Systems	Issued	23-Jan-08				8,369,487	5-Feb-13		Numerex Corp.*
LP	US	Service escrowed transportable wireless event reporting system	Issued	6-Feb-08				8,265,605	11-Sep-12		Numerex Corp.*
LP	US	Intelligent Short Message Delivery System and Method	Issued	27-Oct-08				8,738,046	27-May-14		Numerex Corp.*
LP	US	Alarm System for use over Satellite Broadband	Issued	17-Jul-09				9,131,040	8-Sep-15		Numerex Corp.*
LP	US	Digital Upgrade System and Method	Issued	26-Feb-10				8,041,383	18-Oct-11		Numerex Corp.*
LP	US	Communication of Managing Vending Operations Based on Wireless Data	Issued	6-Jan-11				8,126,764	28-Feb-12		Numerex Corp.*

LP	US	Satellite Based Tracking and Data Device with Multi-Function Radio Frequency Interface	Issued	7-Apr-11				9,119,013	25-Aug-15		Numerex Corp.*
LP	US	Analytical Scoring Engine for Remote Device Data	Issued	22-Apr-11				9,785,702	10-Oct-17		Numerex Corp.*
LP	US	Alarm System IP Network with PSTN Output	Issued	30-Jul-11				9,054,893	9-Jun-15		Numerex Corp.*
LP	US	IP Network Service Redirector Device and Method	Issued	15-Aug-11				8,769,111	1-Jul-14		Numerex Corp.*
LP	US	Method and system for managing subscriber identity modules on wireless networks for machine to-machine applications	Issued	6-Jan-12				8,412,186	2-Apr-13		Numerex Corp.*
LP	US	Local Data Appliance for Collecting and Storing Remote Sensor Data	Issued	30-Mar-12				8,990,915	24-Mar-15		Numerex Corp.*
LP	US	Delivery of Alarm System Event Data and Audio	Issued	4-Apr-12				8,798,260	5-Aug-14		Numerex Corp.*
LP	US	System and Method for Alarm System Tamper Detection and Reporting	Issued	31-May-12				9,214,082	15-Dec-15		Numerex Corp.*
LP	US	Wireless SNMP Agent Gateway	Issued	31-May-12				9,325,814	9-Aug-16		Numerex Corp.*

LP	US	Service escrowed transportable wireless event reporting system	Issued	7-Aug-12				8,543,097	24-Sep-13		Numerex Corp.*
LP	US	Dynamic Reverse Geofencing	Issued	10-Sep-12				8,761,795	24-Jun-14		Numerex Corp.*
LP	US	Method and System for Remote Coupling Security System Control	Issued	3-Oct-12				8,970,364	3-Mar-15		Numerex Corp.*
LP	US	Using Statistical Analysis to Infer an Accurate GPS Location for Use in Tracking Devices	Issued	4-Jan-13				9,207,331	8-Dec-15		Numerex Corp.*
LP	US	System and Method for Using Alarm System Zones for Remote or Mobile Objects	Issued	18-Apr-13				9,041,527	26-May-15		Numerex Corp.*
LP	US	Wireless VoIP Network for Security System Monitoring	Issued	11-Jul-13				9,094,410	28-Jul-15		Numerex Corp.*
LP	US	Service escrowed transportable wireless event reporting system	Issued	21-Aug-13				8,855,716	7-Oct-14		Numerex Corp.*
LP	US	Alarm Sensor Supporting Long-Range Wireless Communication	Issued	29-Aug-13				9,153,124	6-Oct-15		Numerex Corp.*
LP	US	Method and system for untethered two-way voice communication for an alarm system	Issued	27-Sep-13				9,177,464	3-Nov-15		Numerex Corp.*

LP	US	Delivery of Security Solutions Based on Demand	Issued	8-Nov-13			9,235,855	12-Jan-16	Numerex Corp.*
LP	US	Delivery of Alarm System Event Data and Audio Over Hybrid Network	Issued	20-Feb-14			9,350,871	24-May-16	Numerex Corp.*
LP	US	Method and Apparatus for Communication of System Information in a Wireless System	issued	25-Apr-14	US-2014-0334372	13-Nov-14	10,009,831	26-Jun-18	Sierra Wireless Inc.
LP	US	Mobile Management Message Distribution and Active On-Network Determination	Issued	8-May-14			9,510,180	29-Nov-16	Numerex Corp.*
LP	US	Dynamic Reverse Geofencing	Issued	23-Jun-14			9,801,015	24-Oct-17	Numerex Corp.*
LP	US	Method and System for Mitigating Invasion Risk Associated with Stranger Interactions in a Security System Environment	Issued	16-Jul-14			9,183,730	10-Nov-15	Numerex Corp.*
LP	US	Delivery of Alarm System Event Data and Audio	Issued	4-Aug-14			9,462,135	4-Oct-16	Numerex Corp.*
LP	US	Method and System for Detecting Alarm System Tampering	Issued	24-Oct-14			9,449,497	20-Sep-16	Numerex Corp.*

LP	US	Offender Monitor with Managed Rate of Location Reading	Issued	27-Oct-14				9,773,392	26-Sep-17		Numerex Corp.*
LP	US	Offender Monitor with Orientation Based Monitoring	Issued	28-Oct-14				9,401,082	26-Jul-16		Numerex Corp.*
LP	US	Method and System for Generating Geofences for Managing Offender Movement	Issued	28-Oct-14				9,875,638	23-Jan-18		Numerex Corp.*
LP	US	Method and System For Energy Management of an Offender Monitor	Issued	6-Nov-14				9,582,982	28-Feb-17		Numerex Corp.*
LP	US	Method and System for Managing a Location Detector	Issued	3-Dec-14				9,820,223	14-Nov-17		Numerex Corp.*
LP	US	Alarm System IP Network with PSTN Output	Issued	16-Jan-15				9,356,798	31-May-16		Numerex Corp.*
LP	US	System and Method for Using Alarm System Zones for Remote or Mobile Objects	Issued	26-May-15				9,824,575	21-Nov-17		Numerex Corp.*
LP	US	Method and System for Locating a Wireless Tracking Device Associated with a Network of Alarm Panels	Issued	1-Jul-15				9,503,848	22-Nov-16		Numerex Corp.*

LP	US	Method and System for Locating a Wireless Tracking Device	Issued	1-Jul-15			9,794,742	17-Oct-17		Numerex Corp.*
LP	US	System and Method for Camera Registration	Issued	8-Jul-15			11,055,724	6-Jul-21		Numerex Corp.*
LP	US	Motor Fault Detection System and Method	Issued	19-Aug-15			10,107,675	23-Oct-18		Numerex Corp.*
LP	US	Mobile Management Message Distribution and Active On-Network Determination	Issued	23-Sep-15			9,763,025	12-Sep-17		Numerex Corp.*
LP	US	Method and System for Locating a Personal Emergency Response System (PERS) Device Based on Real Estate Lockbox Interaction	Issued	8-Jan-16			10,304,317	28-May-19		Numerex Corp.*
LP	US	Offender Monitor Messaging System	Issued	28-Jul-16			9,877,172	23-Jan-18		Numerex Corp.*
LP	US	Method And System For Locating A Wireless Tracking Device	Issued	5-Sep-17	US20170366931 A1	21-Dec-17	10,264,391	16-Apr-19		Numerex Corp.*
PAT	US	Method and Apparatus for Multi-Transport Block Grant Transmissions (Multi-DCI TBI HARQ)	Pending as part of D18062 510	9-Aug-18						Sierra Wireless Inc.

PAT	US	DMRS for a 2 sub-carrier pi/2 BPSK Modulation in an OFDMA system	Published	16-Jan-19	US20190222388	18-Jul-19					Sierra Wireless Inc.
PAT	US	METHOD AND APPARATUS FOR DEVICE TO DEVICE COMMUNICATION FOR CELLULAR DEVICES; All information related to D19102910PR2 has been moved to D19092510PR2 because the two disclosures are related - SB: 5th May 2020	Pending	30-Oct-19							Sierra Wireless Inc.
PAT	US	Method and Apparatus for Resource Allocation for Half Duplex Frequency Division Duplexing in a Wireless Communication System	Pending	8-Oct-20	US-2021-0028918	28-Jan-21					Sierra Wireless, Inc.

* Please note Numerex Corp. has merged with and into Sierra Wireless America, Inc. These IP interests have not been assigned to Sierra Wireless America, Inc. yet.

TRADEMARKS**Registered 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 1560-243	Sierra Wireless, Inc.	New Zealand	828430	Aug 6, 2010
AIRPRIME 1560-276-E	Sierra Wireless, Inc.	South Africa	2014/11094	May 2, 2014
AIRVANTAGE 1560-203	Sierra Wireless, Inc.	Canada	TMA849,519	Apr 25, 2013
AIRVANTAGE 1560-206	Sierra Wireless, Inc.	EU	8773004	Jun 16, 2010
AIRVANTAGE 1560-208	Sierra Wireless, Inc.	New Zealand	817956	Jul 8, 2010
AIRVANTAGE 1560-207	Sierra Wireless, Inc.	Australia	1339232	Jan. 4, 2010
AIRVANTAGE 1560-210	Sierra Wireless, Inc.	Hong Kong	301509769	Dec. 28, 2009
AIRVANTAGE 1560-268	Sierra Wireless, Inc.	Korea	45-0054823	Mar 12, 2015
AIRVANTAGE (Class 9)	Sierra Wireless, Inc.	China	8009329	Jan. 20, 2010
AIRVANTAGE (Class 38)	Sierra Wireless, Inc.	China	8009328	Jan. 20, 2010
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	Sierra Wireless, Inc.	Canada	TMA953,746	Oct 28, 2016	
1560-294-E					
CF3	Sierra Wireless, Inc.	US	5,153,592	Mar 7, 2017	
1560-295-E					
HEART OF THE WIRELESS MACHINE	Sierra Wireless, Inc.	Canada	TMA432,491	Aug. 26, 1994	
1560-161					
INMOTION SOLUTIONS	Sierra Wireless, Inc.	Canada	TMA951,759	Oct 7, 2016	
1560-289					
INMOTION SOLUTIONS (Class 9)	Sierra Wireless, Inc.	South Africa	2015/11070	Apr 29, 2015	

1560-292-E				
INMOTION SOLUTIONS (Class 37)	Sierra Wireless, Inc.	South Africa	2015/11071	Apr 29, 2015
1560-293-E				
LEGATO	Sierra Wireless, Inc.	Canada	TMA943,123	Jul 12, 2016
1560-264-E				
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				
MANGO	Sierra Wireless, Inc.	AU	1865495	Mar 5, 2017
1560-324				
MANGO	Sierra Wireless, Inc.	CA	TMA1020154	April 26, 2019
1560-321				
MANGO	Sierra Wireless, Inc.	EU	016473481	Aug 14, 2017
1560-320-E				

MANGO H	Sierra Wireless, Inc.	US	5,578,114	Oct 9, 2018
1560-322-E				
MANGO H & Design	Sierra Wireless, Inc.	Canada	TMA951,403	Oct 4, 2016
1560-303-E				
MANGO H & Design	Sierra Wireless, Inc.	US	5,184,368	Apr 18, 2017
1560-304-E				
MANGO H & Design (horizontal)	Sierra Wireless, Inc.	Canada	TMA956,052	Nov 22, 2016
1560-306-E				
MANGO H & Design (horizontal)	Sierra Wireless, Inc.	US	5,174,239	Apr 4, 2017
1560-307-E				
MANGO H & 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 MANGO H	Sierra Wireless, Inc.	Canada	TMA943,947	Jul 21, 2016
1560-296-E				
PROJECT MANGO H	Sierra Wireless, Inc.	EU	14754212	Nov 2, 2015
1560-305-E				
PROJECT MANGO H	Sierra Wireless, Inc.	US	5,102,879	Dec 20, 2016
1560-297-E				

SIERRA WIRELESS 1560-214	Sierra Wireless, Inc.	Australia	1343459	Feb 3, 2010
SIERRA WIRELESS 1560-196	Sierra Wireless, Inc.	Canada	TMA816,324	Jan 27, 2012
SIERRA WIRELESS 1560-213	Sierra Wireless, Inc.	EU	8849911	Jul 27, 2010
SIERRA WIRELESS 1560-314-E	Sierra Wireless, Inc.	EU	15795008	Sep 2, 2016
SIERRA WIRELESS in Chinese Characters	Sierra Wireless, Inc.	China	3302964	Oct. 21, 2003
SIERRA WIRELESS (Class 9)	Sierra Wireless, Inc.	China	8078368	Apr 14, 2014
SIERRA WIRELESS (Class 42)	Sierra Wireless, Inc.	China	8078367	Feb 22, 2010
SIERRA WIRELESS	Sierra Wireless, Inc.	Chile	1234957	Jan 25, 2017
SIERRA WIRELESS	Sierra Wireless, Inc.	Hong Kong	301542753	Feb 10, 2010
SIERRA WIRELESS	Sierra Wireless, Inc.	Japan	5614114	Sep 13, 2013
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					
SIERRA WIRELESS in Chinese Characters	Sierra Wireless, Inc.	Hong Kong	200313261	Sept. 3, 2002	
1560-182					
SIERRA WIRELESS & 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					
SIERRA WIRELESS & Design (Class 9)	Sierra Wireless, Inc.	China	8550458		Jun 14, 2014
1560-231					
SIERRA WIRELESS & Design (Class 38)	Sierra Wireless, Inc.	China	8550457		Aug 6, 2010
1560-244					
SIERRA WIRELESS & Design (Class 41)	Sierra Wireless, Inc.	China	8550550		Aug 6, 2010
1560-245					
SIERRA WIRELESS & 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					

SIERRA WIRELESS & 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 SIERRA WIRELESS & 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 SIERRA WIRELESS & 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 SIERRA WIRELESS & Design	Sierra Wireless, Inc.	Singapore	T1009218B	Jul 21, 2010
1560-234 SIERRA WIRELESS & Design	Sierra Wireless, Inc.	US	4,287,452	Feb 12, 2013

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SIERRA WIRELESS SKYLIGHT	Sierra Wireless, Inc.	Canada	TMA918,986	Oct 30, 2015	
1560-262-E					
SIERRA WIRELESS SKYLIGHT	Sierra Wireless, Inc.	US	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	
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1560-136					
SWOOSH Design	Sierra Wireless, Inc.	US	2,726,412	June 17, 2003	
1560-138					
AIRLINK	Sierra Wireless America, Inc.	Australia	1609556	Mar 5, 2014	
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AIRLINK	Sierra Wireless America, Inc.	Canada	TMA775,836	Aug 31, 2010	
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AIRLINK	Sierra Wireless America, Inc.	EU	11935483	Nov 20, 2013
1559-141				
AIRLINK	Sierra Wireless America, Inc.	US	3,902,433	Jan. 11, 2011
1559-109-E				
AIRLINK	Sierra Wireless America, Inc.	International	957777	Feb. 4, 2008
1559-119				
AIRLINK	Sierra Wireless America, Inc.	Japan	957777	Feb. 4, 2008
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AIRLINK	Sierra Wireless America, Inc.	New Zealand	783705	Feb. 4, 2008
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ALEOS	Sierra Wireless America, Inc.	Canada	TMA752,709	Nov. 10, 2009
1559-112				
ALEOS	Sierra Wireless America, Inc.	Taiwan	1343665	Jan. 1, 2009
1559-113				
ALEOS	Sierra Wireless America, Inc.	US	3,510,793	Oct. 7, 2008
1559-122				
ALEOS	Sierra Wireless America, Inc.	International	953067	Feb. 4, 2008
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ALEOS	Sierra Wireless America, Inc.	Australia	953067	Feb. 4, 2008
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SIERRA WIRELESS AIRLINK	Sierra Wireless, Inc.	Korea	40-1240459	Mar. 17, 2017
1559-143				
UPLINK	Sierra Wireless America, Inc.	US	4,683,816	Feb. 10, 2015
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UPLINK	Sierra Wireless America, Inc.	US	4,013,326	Aug. 16, 2011
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UPLINK	Sierra Wireless America, Inc.	US	3,279,435	Aug. 14, 2007
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UPLINK GPS	Sierra Wireless America, Inc.	US	4,546,091	Jun. 10, 2014
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Pending Trademark Applications

51341929.2

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	88/203,627	Nov 22, 2018
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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				

COPYRIGHTS

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

51341929.2

SCHEDULE "B"

SECURITY INTEREST RECORDATION DETAILS

Canadian Intellectual Property Office

	Office	File/Registration Number (as applicable)
1.	CIPO	05843003
2.	CIPO	1469813
3.	CIPO	1381817

United States Patent and Trademark Office

	Office	Reel/Frame	Registration / Application No.	Registration / Filing Date
1.	USPTO	R/F: 059250/0448	Application No.: 09919069 Patent No.: 7600013 Application No.: 10022351 Patent No.: 7023878 Application No.: 10206681 Patent No.: 8707406 Application No.: 12282950 Patent No.: 8484285 Application No.: 12370421 Patent No.: 8924486	Filing Date: 7/30/2001 Issue Date: 10/06/2009 Filing Date: 12/20/2001 Issue Date: 04/04/2006 Filing Date: 07/26/2022 Issue Date: 04/22/2014 Filing Date: 04/21/2009 Issue Date: 07/09/2013 Filing Date: 02/12/2009 Issue Date: 07/09/2013

		Application No.: 12620372 Patent No.: 8228848 Application No.: 12777475 Patent No.: 8494551 Application No.: 12850423 Patent No.: 8520634 Application No.: 13027750 Patent No.: 8565080 Application No.: 13093757 Patent No.: 8582631 Application No.: 13109342 Patent No.: 8812730 Application No.: 13129660 Patent No.: 9628474 Application No.: 13165555 Patent No.: 8964549 Application No.: 13465219 Patent No.: 8972556 Application No.: 13471390 Patent No.: 8843738 Application No.: 13730244 Patent No.: 9144066 Application No.: 13757413 Patent No.: 9854423 Application No.: 13901838 Patent No.: 9075086 Application No.: 13918303 Patent No.: 9380430	Filing Date: 11/17/2009 Issue Date: 07/24/2012 Filing Date: 05/11/2010 Issue Date: 07/23/2013 Filing Date: 08/04/2010 Issue Date: 08/27/2013 Filing Date: 02/15/2011 Issue Date: 10/22/2013 Filing Date: 04/25/2011 Issue Date: 11/12/2013 Filing Date: 05/17/2011 Issue Date: 08/19/2014 Filing Date: 08/10/2011 Issue Date: 04/18/2017 Filing Date: 06/21/2011 Issue Date: 02/24/2015 Filing Date: 05/07/2012 Issue Date: 03/03/2015 Filing Date: 05/14/2012 Issue Date: 09/23/2014 Filing Date: 12/28/2012 Issue Date: 09/22/2015 Filing Date: 02/01/2013 Issue Date: 12/26/2017 Filing Date: 05/24/2013 Issue Date: 07/07/2015
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		Application No.: 13957009 Patent No.: 9184880 Application No.: 14043435 Patent No.: 9668356 Application No.: 14046475 Patent No.: 10455575 Application No.: 14106601 Patent No.: 9445302 Application No.: 14214739 Patent No.: 9681256 Application No.: 14243604 Patent No.: 9948789 Application No.: 14243621 Patent No.: 9369230 Application No.: 14262433 Patent No.: 10009831 Application No.: 14497145 Patent No.: 9716988 Application No.: 14559035 Patent No.: 10346603 Application No.: 14630532 Patent No.: 9894523 Application No.: 15092845 Patent No.: 10111067 Application No.: 15155206 Patent No.: 10819496 Application No.: 1517550 Patent No.: 11229028	Filing Date: 06/14/2013 Issue Date: 06/28/2016 Filing Date: 08/01/2013 Issue Date: 11/10/2015 Filing Date: 10/01/2013 Issue Date: 05/30/2017 Filing Date: 10/04/2013 Issue Date: 10/22/2019 Filing Date: 12/13/2013 Issue Date: 09/13/2016 Filing Date: 03/15/2014 Issue Date: 06/13/2017 Filing Date: 04/02/2014 Issue Date: 04/17/2018 Filing Date: 04/02/2014 Issue Date: 06/14/2016 Filing Date: 04/25/2014 Issue Date: 06/26/2018 Filing Date: 09/25/2014 Issue Date: 07/25/2017 Filing Date: 12/03/2014 Issue Date: 07/09/2019 Filing Date: 02/24/2015 Issue Date: 02/13/2018 Filing Date: 04/07/2016 Issue Date: 10/23/2018 Filing Date: 05/16/2016 Issue Date: 10/27/2020
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		Application No.: 15276053 Patent No.: 10225829 Application No.: 15283967 Patent No.: N/A Application No.: 15343945 Patent No.: 10271302 Application No.: 15721374 Patent No.: 11202324 Application No.: 15910087 Patent No.: 10868416 Application No.: 15938701 Patent No.: 11048801 Application No.: 15968929 Patent No.: 10764847 Application No.: 16009694 Patent No.: 10977024 Application No.: 16058781 Patent No.: 11172442 Application No.: 16192092 Patent No.: 10931492 Application No.: 16249217 Patent No.: 10630445 Application No.: 16529611 Patent No.: 11169796 Application No.: 16536964 Patent No.: N/A Application No.: 16537152 Patent No.: N/A	Filing Date: 06/02/2016 Issue Date: 01/18/2022 Filing Date: 09/26/2016 Issue Date: 03/05/2019 Filing Date: 10/03/2016 Issue Date: N/A Filing Date: 11/04/2016 Issue Date: 04/23/2019 Filing Date: 09/29/2017 Issue Date: 12/14/2021 Filing Date: 03/02/2018 Issue Date: 12/15/2020 Filing Date: 03/28/2018 Issue Date: 06/29/2021 Filing Date: 05/02/2018 Issue Date: 09/01/2020 Filing Date: 06/15/2018 Issue Date: 04/13/2021 Filing Date: 08/08/2018 Issue Date: 11/09/2021 Filing Date: 11/15/2018 Issue Date: 02/23/2021 Filing Date: 01/16/2019 Issue Date: 04/21/2020 Filing Date: 08/01/2019 Issue Date: 11/09/2021 Filing Date: 08/09/2019 Issue Date: N/A
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			Application No.: 16561337 Patent No.: N/A Application No.: 16789938 Patent No.: N/A Application No.: 16791956 Patent No.: N/A Application No.: 17062161 Patent No.: N/A Application No.: 17066002 Patent No.: N/A Application No.: 17184151 Patent No.: N/A	Filing Date: 08/09/2019 Issue Date: N/A Filing Date: 09/05/2019 Issue Date: N/A Filing Date: 02/13/2020 Issue Date: N/A Filing Date: 02/14/2020 Issue Date: N/A Filing Date: 10/02/2020 Issue Date: N/A Filing Date: 10/08/2020 Issue Date: N/A Filing Date: 02/24/2021 Issue Date: N/A
2.	USPTO	R/F: 7644/0033	Serial No.: 76211736 Registration No.: 2726412 Serial No.: 77895705 Registration No.: 4243932 Serial No.: 77922725 Registration No.: 4177465 Serial No.: 85084290 Registration No.: 4287452 Serial No.: 85100974 Registration No.: 4110874 Serial No.: 86059457 Registration No.: 4958080 Serial No.: 86064008 Registration No.: 4698092	Filing Date: 02/20/2001 Registration Date: 06/17/2003 Filing Date: 12/17/2009 Registration Date: 11/20/2012 Filing Date: 01/28/2010 Registration Date: 07/24/2012 Filing Date: 07/14/2010 Registration Date: 02/12/2013 Filing Date: 08/05/2010 Registration Date: 03/13/2012 Filing Date: 09/09/2013 Registration Date: 05/17/2016 Filing Date: 09/13/2013 Registration Date: 03/10/2015

			Serial No.: 86161474 Registration No.: 4853539 Serial No.: 86650350 Registration No.: 5153592 Serial No.: 86664184 Registration No.: 5102879 Serial No.: 86818504 Registration No.: 5184368 Serial No.: 86855676 Registration No.: 5174239 Serial No.: 87375399 Registration No: 5578114 Serial No.: 88203627	Filing Date: 01/09/2014 Registration Date: 11/17/2015 Filing Date: 06/03/2015 Registration Date: 03/07/2017 Filing Date: 06/16/2015 Registration Date: 12/20/2016 Filing Date: 11/12/2015 Registration Date: 04/18/2017 Filing Date: 12/21/2015 Registration Date: 04/04/2017 Filing Date: 03/17/2017 Registration Date: 10/09/2018 Filing Date: 11/22/2018
3.	USPTO	R/F: 058859/0274	Application No.: 11595487 Patent No.: 8054778	Filing Date: 11/10/2006 Issue Date: 11/08/2011
4.	USPTO	R/F: 058859/0145	Application No.: 11595487 Patent No.: 8054778	Filing Date: 11/10/2006 Issue Date: 11/08/2011
5.	USPTO	R/F: 058859/0001	Application No.: 11595380 Patent No.: 8121071	Filing Date: 11/10/2006 Issue Date: 02/21/2012
6.	USPTO	R/F: 058858/0865	Application No.: 11595380 Patent No.: 8121071	Filing Date: 11/10/2006 Issue Date: 02/21/2012
7.	USPTO	R/F: 058858/0668	Application No.: 12927990 Patent No.: 8405547	Filing Date: 12/01/2010 Issue Date: 03/26/2013
8.	USPTO	R/F: 058858/0574	Application No.: 12927990 Patent No.: 8405547	Filing Date: 12/01/2010 Issue Date: 03/26/2013

9.	USPTO	R/F: 7865/0210	Serial No.: 77245894 Registration No.: 3902433 Serial No.: 77246967 Registration No.: 3510793 Serial No.: 78106931 Registration No.: 4013326 Serial No.: 78691601 Registration No.: 3279435 Serial No.: 85818059 Registration No.: 4546091 Serial No.: 86190829 Registration No.: 4683816	Filing Date: 08/02/2007 Registration Date: 01/11/2011 Filing Date: 08/03/2007 Registration Date: 10/07/2008 Filing Date: 02/05/2002 Registration Date: 08/16/2011 Filing Date: 08/12/2005 Registration Date: 08/14/2007 Filing Date: 01/08/2013 Registration Date: 06/10/2014 Filing Date: 02/11/2014 Registration Date: 02/10/2015
10.	USPTO	R/F: 7865/2019	Serial No.: 77245894 Registration No.: 3902433 Serial No.: 77246967 Registration No.: 3510793 Serial No.: 78106931 Registration No.: 4013326 Serial No.: 78691601 Registration No.: 3279435 Serial No.: 85818059 Registration No.: 4546091 Serial No.: 86190829 Registration No.: 4683816	Filing Date: 08/02/2007 Registration Date: 01/11/2011 Filing Date: 08/03/2007 Registration Date: 10/07/2008 Filing Date: 02/05/2002 Registration Date: 08/16/2011 Filing Date: 08/12/2005 Registration Date: 08/14/2007 Filing Date: 01/08/2013 Registration Date: 06/10/2014 Filing Date: 02/11/2014 Registration Date: 02/10/2015

SCHEDULE "C"**RELEASED IP****Patents and Patent Applications**

Number	Country	Title	Filing Date	Issue Date
US 9,449,497	US	Method and System for Detecting Alarm System Tampering	24-10-14	20-09-16
US 9,350,871	US	Delivery of Alarm System Event Data and Audio Over Hybrid Network	20-02-14	24-05-16
US 11,055,724	US	System and Method for Camera Registration	08-07-15	
US 9,131,040	US	Alarm System for use over Satellite Broadband	17-07-09	08-09-15
US 8,369,487	US	Enhanced 911 notification for Internet Enabled Alarm Systems	23-01-08	05-02-13
US 8,798,260	US	Delivery of Alarm System Event Data and Audio	04-04-12	05-08-14
MX 327,143	MX	ENTREGA DE DATOS Y AUDIO DE EVENTOS DEL SISTEMA DE ALARMA.	04-04-12	20-01-15
US 9,462,135	US	Delivery of Alarm System Event Data and Audio	04-08-14	04-10-16
MX 327,784	MX	ENTREGA DE DATOS Y AUDIO DE EVENTOS DEL SISTEMADE ALARMA SOBRE REDES HIBRIDAS.	06-03-12	
US 9,235,855	US	Delivery of Security Solutions Based on Demand	08-11-13	12-01-16
MX 327,926	MX	CONTROL IMPERACTIVO DE SISTEMAS DE ALARMA POR INTERFAZ DE TELEFONO UTILIZANDO UNA PUERTA DE ENLACE INTERMEDIA.	27-04-12	16-02-15
US 9,214,082	US	System and Method for Alarm System Tamper Detection and Reporting	31-05-12	15-12-15

Trademarks and Trademark Applications

Country	Trademark	Registration Number	Registration Date	Status
Canada	UPLINK	TMA839,860	Jan 11, 2013	Registered
Canada	U-TRAQ BY UPLINK	TMA786,648	Jan 7, 2011	Registered
European Union & UK	UPLINK	013009774	Nov 11, 2014	Registered
European Union & UK	UPLINK	5915327	Mar 16, 2010	Registered
European Union & UK	UPLINKGPS	011476546	Jun 6, 2013	Registered
Mexico	UPLINK (Class 38)	1489839	Oct 22, 2014	Registered
Mexico	UPLINK (Class 39)	1605803	Jan 21, 2016	Registered
Mexico	UPLINK (Class 45)	1483999	Oct 1, 2014	Registered
Mexico	UPLINK (Class 9)	1493815	Nov 10, 2014	Registered
United States	UPLINK	4,683,816	Feb 10, 2015	Registered
United States	UPLINK	3,279,435	Aug 14, 2007	Registered
United States	UPLINK GPS	4,546,091	Jun 10, 2014	Registered

Domain Names

uplink.com
uplinkremote.com
uplinkinstaller.com

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RECORDED: 10/28/2022

PATENT
REEL: 061797 FRAME: 0263