

TRADEMARK ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

ETAS ID: TM402644

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	SECURITY INTEREST		
CONVEYING PARTY DATA			
Name	Formerly	Execution Date	Entity Type
ETHERTRONICS, INC.		10/13/2016	Corporation: DELAWARE
RECEIVING PARTY DATA			
Name:	NH EXPANSION CREDIT FUND HOLDINGS LP		
Street Address:	1585 BROADWAY, 37TH FLOOR		
City:	NEW YORK		
State/Country:	NEW YORK		
Postal Code:	10036		
Entity Type:	Limited Partnership: DELAWARE		
PROPERTY NUMBERS Total: 3			
Property Type	Number	Word Mark	
Serial Number:	86800161	ACTIVE STEERING	
Registration Number:	2768087	ETHERTRONICS	
Registration Number:	4672691	ETHERTRONICS	
CORRESPONDENCE DATA			
Fax Number:	8585506420		
<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>			
Phone:	858-550-6433		
Email:	jmfitzpatrick@cooley.com		
Correspondent Name:	JENNIFER FITZPATRICK		
Address Line 1:	C/O COOLEY LLP		
Address Line 2:	4401 EASTGATE MALL		
Address Line 4:	SAN DIEGO, CALIFORNIA 92121		
ATTORNEY DOCKET NUMBER:	136453-190		
NAME OF SUBMITTER:	JENNIFER FITZPATRICK		
SIGNATURE:	/JENNIFER FITZPATRICK/		
DATE SIGNED:	10/19/2016		
Total Attachments: 9			
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INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement is entered into as of October 13, 2016 by and between NH EXPANSION CREDIT FUND HOLDINGS LP, a Delaware limited partnership (“Holder”) and ETHERTRONICS, INC., a Delaware corporation (“Grantor”).

RECITALS

A. Holder has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the “Loans”) in the amounts and manner set forth in that certain Secured Promissory Note issued by Grantor dated of even date herewith (as the same may be amended, modified or supplemented from time to time, the “Secured Note”; capitalized terms used herein are used as defined in the Secured Note). Holder is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Holder a security interest in certain Copyrights, Trademarks and Patents to secure the obligations of Grantor under the Secured Note.

B. Pursuant to the terms of the Secured Note, Grantor has granted to Holder a security interest in all of Grantor’s right, title and interest, whether presently existing or hereafter acquired, in, to and under all of the Collateral.

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, and intending to be legally bound, as collateral security for the prompt and complete payment when due of its obligations under the Secured Note and all other agreements now existing or hereafter arising between Grantor and Holder, Grantor hereby represents, warrants, covenants and agrees as follows:

AGREEMENT

To secure its obligations under the Secured Note and under any other agreement now existing or hereafter arising between Grantor and Holder, Grantor grants and pledges to Holder a security interest in all of Grantor’s right, title and interest in, to and under its Intellectual Property Collateral (including without limitation those Copyrights, Patents and Trademarks listed on Exhibits A, B and C hereto), and including without limitation all proceeds thereof (such as, by way of example but not by way of limitation, license royalties and proceeds of infringement suits), the right to sue for past, present and future infringements, all rights corresponding thereto throughout the world and all re-issues, divisions continuations, renewals, extensions and continuations-in-part thereof.

This security interest is granted in conjunction with the security interest granted to Holder under the Secured Note. The rights and remedies of Holder with respect to the security interest granted hereby are in addition to those set forth in the Secured Note and the other Note Documents, and those which are now or hereafter available to Holder as a matter of law or equity. Each right, power and remedy of Holder provided for herein or in the Secured Note or any of the Note Documents, or now or hereafter existing at law or in equity shall be cumulative and concurrent and shall be in addition to every right, power or remedy provided for herein and the exercise by Holder of any one or more of the rights, powers or remedies provided for in this Intellectual Property Security Agreement, the Secured Note or any of the other Note Documents, or now or hereafter existing at law or in equity, shall not preclude the simultaneous or later exercise by any person, including Holder, of any or all other rights, powers or remedies.

Grantor represents and warrants that Exhibits A, B, and C attached hereto set forth any and all intellectual property rights in connection to which Grantor has registered or filed an application with either the United States Patent and Trademark Office or the United States Copyright Office, as applicable.

This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.


GRANTOR:

Address of Grantor:

5501 Oberlin Drive, Suite 100
San Diego, CA 92121

Attn: Rich Johnson

ETHERTRONICS, INC.

By: 
Name: Richard Johnson
Title: CEO

HOLDER:

Address of Holder:

1585 Broadway, 37th Floor
New York, NY 10036

Attn: Debra Abramovitz

NH EXPANSION CREDIT FUND HOLDINGS LP

By: MS Expansion Credit GP L.P., its general partner
By: MS Expansion Credit GP Inc., its general partner

By: _____
Name: William Reiland
Title: Managing Director

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be duly executed by its officers thereunto duly authorized as of the first date written above.

GRANTOR:

Address of Grantor:

ETHERTRONICS, INC.

5501 Oberlin Drive, Suite 100
San Diego, CA 92121

By: _____
Name: _____
Title: _____

Attn: _____

HOLDER:

Address of Holder:

NH EXPANSION CREDIT FUND HOLDINGS LP

1585 Broadway, 37th Floor
New York, NY 10036

By: MS Expansion Credit GP L.P., its general partner
By: MS Expansion Credit GP Inc., its general partner

Attn: Debra Abramovitz

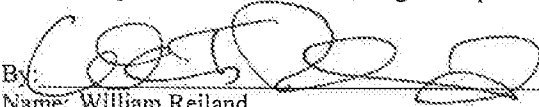
By: 
Name: William Reiland
Title: Managing Director

EXHIBIT A

Copyrights

None.

EXHIBIT B

Patents

See attached

Count	Number	Status	Patent Portfolio Effective October 10, 2016	Title	Patent #	Inventors	Issue or the Date	Expiration
1	1	U.S. Issued Patents	Antenna	Multimode Grounded Finger Patch Antenna	6,323,810	G. Pollara, L. Desdes	11/27/2011	11/27/2031
2	2	U.S. Issued Patents	Antenna	Multimode Grounded Finger Patch Antenna Structures and Methods of Feeding the Volume of an Antenna	6,456,243	G. Pollara, L. Desdes, S. Rowson	9/24/2012	9/24/2032
3	3	U.S. Issued Patents	Antenna	Circular Polarization Antennas and Methods	6,468,548	G. Pollara, L. Desdes, S. Rowson	11/26/2012	11/26/2032
4	4	U.S. Issued Patents	Antenna	Circular Polarization Antennas and Methods	6,468,547	G. Pollara, L. Desdes, S. Rowson	11/26/2012	11/26/2032
5	5	U.S. Issued Patents	Antenna	Integrated Multimode SlotPatch Antenna and Method	6,518,924	L. Desdes, S. Rowson, G. Pollara	2/11/2010	2/11/2030
6	6	U.S. Issued Patents	Antenna	Magnetic Dipole Antenna Structure and Method	6,567,053	E. Yaldironich, L. Desdes, S. Rowson	5/20/2010	5/20/2030
7	7	U.S. Issued Patents	Antenna	Small Embedded Multi-Frequency Antenna for Portable Wireless Communications	6,573,867	L. Desdes, G. Pollara, S. Rowson	6/3/2010	6/3/2030
8	8	U.S. Issued Patents	Manufacturing	Automated Tuning and Testing Devices to Produce Magnetic Dipole Antennas	6,675,461	S. Rowson, L. Desdes, G. Pollara	1/13/2014	1/13/2034
9	9	U.S. Issued Patents	Antenna	Shielded Spiral Sheet Antenna Structure and Method	6,677,915	E. Yaldironich, L. Desdes, S. Rowson	4/6/2014	4/6/2034
10	10	U.S. Issued Patents	Antenna	Multi-Band, Low Profile, Capacitively Loaded Magnetic Dipole Antennas	6,717,551	J. Shamblin, L. Desdes, G. Pollara, S. Rowson	6/12/2004	6/12/2034
11	11	U.S. Issued Patents	Antenna	Multi-Band, Low Profile, Capacitively Loaded Antennas With Integrated Feeders	6,744,410	J. Shamblin, L. Desdes, G. Pollara, S. Rowson	6/12/2004	6/12/2034
12	12	U.S. Issued Patents	Antenna	Multi-Frequency Antennas with Reduced Space and Relative Assembly	6,750,175	G. Pollara, L. Desdes, S. Rowson	2/22/2005	2/22/2035
13	13	U.S. Issued Patents	Active Antenna	Active Reconfigurable Capacitively Loaded Magnetic Dipole	6,809,729	G. Pollara, L. Desdes, S. Rowson	5/31/2015	5/31/2035
14	14	U.S. Issued Patents	Active Antenna	Multi-Frequency Magnetic Dipole Antenna Structures for Very Low Profile Antenna Applications	6,906,657	G. Pollara, L. Desdes, S. Rowson	6/28/2015	6/28/2035
15	15	U.S. Issued Patents	Active Antenna	Differential Mode Capacitively Loaded Magnetic Dipole	6,919,857	J. Shamblin, L. Desdes, S. Rowson, J. Shamblin	7/19/2015	7/19/2035
16	16	U.S. Issued Patents	Antenna	Low Profile, Multi-Frequency, Multi-Band, Capacitively Loaded Magnetic Dipole Antenna	6,943,750	G. Pollara, L. Desdes, S. Rowson	9/13/2015	9/13/2035
17	17	U.S. Issued Patents	Antenna	Multimode Magnetic Dipole Antenna Structures and Methods of Feeding the Volume of an Antenna	7,012,268	V. Parikh, G. Pollara, L. Desdes, S. Rowson	5/14/2016	5/14/2036
18	18	U.S. Issued Patents	Antenna	Antennas with Reduced Space and Improved Performance	7,084,613	L. Desdes, G. Pollara, S. Rowson	8/12/2016	8/12/2036
19	19	U.S. Issued Patents	Antenna	Low Profile, Multi-Frequency, Differential Antenna Structures	7,123,209	L. Desdes, G. Pollara, S. Rowson	10/17/2016	10/17/2036
20	20	U.S. Issued Patents	Antenna	Capacitor for Use with Movable Protons	7,310,858	L. Desdes, G. Pollara, S. Rowson	12/19/2017	12/19/2037
21	21	U.S. Issued Patents	Antenna	Multi-Frequency Magnetic Dipole Antenna Structures and Methods of Feeding the Volume of an Antenna	7,359,531	L. Desdes, G. Pollara, S. Rowson	3/4/2018	3/4/2038
22	22	U.S. Issued Patents	Manufacturing	System and Method for Preventing Copying of Electronic Component Designs	7,528,720	L. Desdes, G. Pollara, S. Rowson	5/5/2019	5/5/2039
23	23	U.S. Issued Patents	Antenna	Optimized Capacitive Dipole Antenna	7,616,164	M. Kier, L. Desdes, S. Rowson, S. Rowson	7/8/2019	7/8/2039
24	24	U.S. Issued Patents	Antenna	Antenna Configured for Low Frequency Applications	7,653,556	L. Desdes, S. Rowson, J. Shamblin	2/16/2010	2/16/2030
25	25	U.S. Issued Patents	Antenna	Low Frequency Antenna	7,671,816	L. Desdes, S. Rowson, J. Shamblin	4/16/2010	4/16/2030
26	26	U.S. Issued Patents	Antenna	Antenna Configured for Low Frequency Applications	7,689,932	L. Desdes, S. Rowson, R. Jones	4/13/2010	4/13/2030
27	27	U.S. Issued Patents	Antenna	Multi-Layer Isolated Magnetic Dipole Antenna	7,777,666	L. Desdes, S. Rowson, J. Shamblin	10/1/2010	10/1/2030
28	28	U.S. Issued Patents	Antenna	Active Tuned Loop Coupled Antenna	7,812,774	A. Fimm, S. Rowson, L. Desdes, J. Shamblin	11/12/2010	11/12/2030
29	29	U.S. Issued Patents	Active Antenna	Antenna with Active Elements	7,890,320	J. Shamblin, L. Desdes, S. Rowson, C. Han, R. Jones	11/9/2010	11/9/2030
30	30	U.S. Issued Patents	Active Antenna	Antenna and Method for Steering Antenna Beam Direction	7,911,402	Sebastian Rowson, Laurent Desdes, Jeff Shamblin	3/5/2018	3/5/2038
31	31	U.S. Issued Patents	Active Antenna	Antenna with Near Field Deflector	7,964,986	Chulhan Han, Rowland Jones, Jeff Shamblin, Sebastian Rowson, Laurent Desdes	8/9/2011	8/9/2031
32	32	U.S. Issued Patents	Antenna	Capacitively Loaded Dipole Antenna Optimized for Size	7,992,869	L. Desdes, M. Kier, S. Thonwall, V. Parikh, G. Pollara, S. Rowson	2/4/2018	2/4/2038
33	33	U.S. Issued Patents	Antenna	Antenna with Active Elements	8,059,047 B2	J. Shamblin, L. Desdes, S. Rowson, C. Han, R. Jones	11/15/2011	11/15/2031
34	34	U.S. Issued Patents	Active Antenna	Low Cost Integrated Antenna Assembly And Methods For Fabrication	8,077,116	Laurent Desdes, Jeff Shamblin, M. Kier	12/13/2011	12/13/2031
35	35	U.S. Issued Patents	Active Antenna	Antenna and Method for Steering Antenna Beam Direction	8,179,323	Sebastian Rowson, Laurent Desdes, Jeff Shamblin	5/15/2012	5/15/2032
36	36	U.S. Issued Patents	Active Antenna	Multi-Frequency Noise Optimized Active Antenna	8,362,862	A. Fimm, L. Desdes, X. Su	1/29/2013	1/29/2033
37	37	U.S. Issued Patents	Active Antenna	Spatial Filter for Near Field Medication in a Wireless Device	8,421,895	Xiaomeng Shi, Ting Ting Dong, Sebastian Rowson, Laurent Desdes, Jeff Shamblin	4/16/2013	4/16/2033
38	38	U.S. Issued Patents	Active Antenna	Multi-Function Array For Access Point and Mobile Wireless Systems	8,421,965	J. Shamblin, L. Desdes, S. Rowson	4/16/2013	4/16/2033
39	39	U.S. Issued Patents	System	Active Self-reconfigurable Multimode Antenna System	8,604,988	B. Matuson, J. Shamblin, L. Desdes	12/12/2013	12/12/2033
40	40	U.S. Issued Patents	System	Active Front and Module Using a Modal Antenna Approach for Improved Communication System Performance	8,581,139	L. Desdes, S. Rowson, J. Shamblin	11/12/2013	11/12/2033
41	41	U.S. Issued Patents	System	Modal Adaptive Antenna Using Pilot Signal in CDMA Mobile Communication System and Signal Receiving Method	8,570,231	L. Desdes, S. Rowson, J. Shamblin	10/29/2013	10/29/2033
42	42	U.S. Issued Patents	System	Multi-Band MIMO Antenna	8,633,663	L. Desdes, S. Rowson, J. Shamblin	12/1/2013	12/1/2033
43	43	U.S. Issued Patents	Active Antenna	Multi-Band MIMO Antenna	8,542,159 B2	L. Desdes, S. Rowson, J. Shamblin, V. Cira	9/24/2014	9/24/2034
44	44	U.S. Issued Patents	Active Antenna	Antenna and Method for Steering Antenna Beam Direction	8,592,861	Sebastian Rowson, Laurent Desdes, Jeff Shamblin	3/5/2018	3/5/2038
45	45	U.S. Issued Patents	Active Antenna	Antenna with Active Elements	8,646,755	J. Shamblin, L. Desdes, S. Rowson, C. Han, R. Jones	5/6/2014	5/6/2034
46	46	U.S. Issued Patents	Active Antenna	Multiple Feed Antenna For Beam Optimization	8,717,241	Y. Cira, C. Han, L. Desdes, S. Rowson, B. Kwak, J. Shamblin	2/11/2014	2/11/2034
47	47	U.S. Issued Patents	Active Antenna	Multi-Layer, Reactively Loaded Isolated Magnetic Dipole Antenna	8,646,756	L. Desdes, J. Shamblin, S. Rowson	4/16/2013	4/16/2033
48	48	U.S. Issued Patents	Active Antenna	Multi-Layered Active Antenna Configuration for Multi-Band MIMO LTE System	8,421,702	L. Desdes, J. Shamblin, S. Rowson	9/12/2012	9/12/2032
49	49	U.S. Issued Patents	Active Antenna	Media Antenna for Communication System	8,638,682	L. Desdes, S. Rowson, J. Shamblin, S. Bansal	4/4/2014	4/4/2034
50	50	U.S. Issued Patents	Active Antenna	Multi-Antenna Module Containing Active Elements and Control Circuits for Wireless Systems	8,528,540	L. Desdes, S. Rowson, J. Shamblin	1/6/2014	1/6/2034
51	51	U.S. Issued Patents	System	COMMUNICATION SYSTEM WITH BAND, MODE, IMPEDANCE AND LINEARIZATION SELF-ADJUSTMENT	9,014,699	A. Dupuy, L. Desdes	4/21/2015	4/21/2035
52	52	U.S. Issued Patents	System	Pre-optimization of Antenna Circuits	8,993,866	S. Rowson, L. Desdes, J. Shamblin	5/31/2015	5/31/2035
53	53	U.S. Issued Patents	System	Multi-Frequency MIMO Antenna	8,643,665	L. Desdes, S. Rowson, S. Rowson	9/23/2014	9/23/2034
54	54	U.S. Issued Patents	System	Multi-Frequency MIMO Antenna	8,995,480	J. Shamblin, L. Desdes, S. Rowson	3/24/2015	3/24/2035
55	55	U.S. Issued Patents	System	Active MIMO Antenna with Co-located Antennas Suppressing Interference	8,995,481	A. Dupuy, L. Desdes, S. Rowson, J. Shamblin, S. Rowson	1/6/2015	1/6/2035
56	56	U.S. Issued Patents	System	ACTIVE MIMO ASSEMBLY AND RELATED MANUFACTURING METHOD	9,030,851	L. Desdes, J. Shamblin, S. Rowson, S. Rowson	5/12/2015	5/12/2035
57	57	U.S. Issued Patents	System	Adaptive Resener for Improved Communication System Performance	9,030,372	L. Desdes, J. Shamblin, S. Rowson, A. Dupuy	5/12/2015	5/12/2035
58	58	U.S. Issued Patents	System	Super-Imposed Multimode Antenna for Entrance System Filtering	9,035,656	J. Shamblin, S. Rowson, L. Desdes	5/19/2015	5/19/2035
59	59	U.S. Issued Patents	System	Transmit Receive Low Band Antenna	9,046,555	L. Desdes, S. Rowson, J. Shamblin	6/2/2015	6/2/2035
60	60	U.S. Issued Patents	System	Location Finding Using Cellular Modal Antenna	9,110,109	J. Shamblin, S. Rowson, L. Desdes	8/18/2015	8/18/2035
61	61	U.S. Issued Patents	System	Antenna System for Interference Suppression	9,123,966	J. Shamblin, S. Rowson, L. Desdes	10/27/2015	10/27/2035
62	62	U.S. Issued Patents	System	Communication systems with enhanced isolation provision	9,172,422	L. Desdes, A. Dupuy	11/17/2015	11/17/2035
63	63	U.S. Issued Patents	System	MODAL ANTENNA WITH CORRELATION MANAGEMENT FOR DIVERSITY APPLICATIONS	9,160,733	Cheer Chwee Heng, L. Desdes, S. Rowson, J. Shamblin	11/17/2015	11/17/2035
64	64	U.S. Issued Patents	System	Method and Apparatus For Switched Combined Diversity With a Modal Antenna	9,112,276	L. Desdes, B. Matuson, S. Rowson, J. Shamblin	10/13/2015	10/13/2035
65	65	U.S. Issued Patents	System	Method and Apparatus For Switched Combined Diversity With a Modal Antenna	9,065,485 B2	J. Shamblin, L. Desdes	6/23/2015	6/23/2035
66	66	U.S. Issued Patents	System	A multi-band communication system with isolation and impedance matching provision	9,253,626	S. Rowson, A. Dupuy, L. Desdes	2/22/2016	2/22/2036
67	67	U.S. Issued Patents	System	Beam Forming and Steering Using LTE Diversity Antenna	9,287,941	A. Dupuy, L. Desdes	1/15/2016	1/15/2036
68	68	U.S. Issued Patents	System	High Speed Tunable Matching Network For Antenna Systems	61,590,303	O. Pajota, S. Rowson, L. Desdes	3/15/2016	3/15/2036
69	69	U.S. Issued Patents	System	Method and Apparatus For Switched Combined Diversity With a Modal Antenna	9,253,626	S. Rowson, A. Dupuy, L. Desdes	2/22/2016	2/22/2036
70	70	U.S. Issued Patents	System	Beam Forming and Steering Using LTE Diversity Antenna	9,287,941	A. Dupuy, L. Desdes	1/15/2016	1/15/2036
71	71	U.S. Issued Patents	System	High Speed Tunable Matching Network For Antenna Systems	61,590,303	O. Pajota, S. Rowson, L. Desdes	3/15/2016	3/15/2036
72	72	U.S. Issued Patents	System	Method and Apparatus For Switched Combined Diversity With a Modal Antenna	9,253,626	S. Rowson, A. Dupuy, L. Desdes	2/22/2016	2/22/2036
73	73	U.S. Issued Patents	System	Beam Forming and Steering Using LTE Diversity Antenna	9,287,941	A. Dupuy, L. Desdes	1/15/2016	1/15/2036
74	74	U.S. Issued Patents	System	High Speed Tunable Matching Network For Antenna Systems	61,590,303	O. Pajota, S. Rowson, L. Desdes	3/15/2016	3/15/2036

157	43	US, Pending Patents	Antenna System	WIDEBAND WIDE BEAMWIDTH-MIMO ANTENNA SYSTEM	62/159,103	J. Shamblin, L. Desros	5/8/2015
158	44	US, Pending Patents	System	Beam Steering Techniques for External Antenna Configurations CO-LOCATED ACTIVE STEERING ANTENNAS CONFIGURED FOR BAND SWITCHING, IMPEDANCE MATCHING AND UNIT SELECTIVITY	13/299,869	L. Desros, A. Singh, J. Shamblin	9/19/2016
159	45	US, Pending Patents	Active Antenna Chip	Tunable Logarithmic Amplifier	62/196,794	O. Pajota, J. Kyllonen, L. Desros	11/13/2015
160	46	US, Pending Patents	System	Beam Steering System Configured for Multi-Client Network	62/255,375	L. Desros, O. Pajota	11/23/2015
161	47	US, Pending Patents	System	Inter-Dwelling Signal Management Using Reconfigurable Antennas	62/258,859	S. Rowson, A. Singh, L. Desros	11/23/2015
162	48	US, Pending Patents	System	Network Repeater System	62/290,416	L. Desros, O. Pajota	2/22/2016
163	49	US, Pending Patents	Manufacturing System	METHOD FOR MANUFACTURING CIRCUIT HAVING LAMINATION LAYER USING LDS PROCESS	62/290,419	L. Desros, J. Shamblin	2/22/2016
164	50	US, Pending Patents	System	ADAPTIVE ANTENNA FOR CHANNEL SELECTION MANAGEMENT IN COMMUNICATION SYSTEMS	15/170,943	S. Choi, H. Hong, T. Kim, C. Ryu, Y. Kim, S. Kim	2/22/2016
165	51	US, Pending Patents	System	Reconfigurable Dynamic Mesh Network	62/291,432	O. Pajota, L. Desros	2/22/2016
166	52	US, Pending Patents	Active Antenna System	ANTENNA AND METHOD FOR STEERING ANTENNA BEAM DIRECTION FOR WIRELESS APPLICATIONS	62/291,432	Sebastian Rowson, Laurent Desros, Jeff Shamblin	12/10/2015
167	53	US, Pending Patents	System	RF System for distribution of Over the air content for in building applications	14/965,881	L. Desros, V. Mariani, J. Shamblin	4/22/2016
168	54	US, Pending Patents	Antenna	Low Profile Antenna System With Feature for Detuning Resistance	62/326,592	L. Desros	4/19/2016
169	55	US, Pending Patents	Antenna System	Low Profile Antenna	62/324,540	L. Desros, J. Shamblin	4/21/2016
170	56	US, Pending Patents	System	Tunable Duplexing Circuit	15/192,412	L. Desros	6/14/2016
171	57	US, Pending Patents	System	Repeater with Multiple Antenna	15/282,514	A. Shen, S. Rowson, L. Desros, J. Shamblin	8/20/2016
172	58	US, Pending Patents	System	Antenna With Proximity Sensor Function	15/283,270	S. Rowson, L. Desros, J. Shamblin	9/12/2016
173	59	US, Pending Patents	System	Adaptively Antenna Using Reference Signal LTE Protocol	15/281,540	L. Desros, S. Rowson, J. Shamblin	9/9/2016
174	60	US, Pending Patents	System	Multi-Mode, Multi-Band, Self-Realigning Power Amplifier	14/955,175	A. Dippuy, L. Desros	5/17/2016
175	61	US, Pending Patents	System	Antenna With Multiple Coupled Regions	14/885,981	Cheer Chwea Heang, L. Desros, S. Rowson, J. Shamblin	10/16/2015
176	62	US, Pending Patents	Active Antenna System	Reconfigurable multi-mode active antenna system	14/781,889	L. Desros, C. Yeon	9/19/2014
177	63	US, Pending Patents	System	Modal Adaptive Antenna Using Pilot Signal in CDMA Mobile Communication System and Signal Receiving Method	14/109,789	L. Desros, S. Rowson, J. Shamblin	12/17/2013
178	64	US, Pending Patents	Manufacturing	Two Step Manufacturing Method with Integrated Interconnects and Assemblies	14/109,789	S. W. Choi	12/17/2013
179	1	Foreign Pending Patents, Korea	Manufacturing	Method For Manufacturing Circuit Having Lamination Layer Using LDS Process	1-2010-043752-1	S.W. Choi, H. Y. Hong, T.W. Kim, C.H. Ryu, Y.S. Kim, S.J. Kim	pending
180	2	Foreign Pending Patents, Korea	Manufacturing	Modal Antenna With Correlation Management for Diversity Applications	10-2015-0078172	L. Desros, B. Matuszews, S. Rowson, J. Shamblin	6/22/2015
181	3	Foreign Pending Patents, Korea	Antenna System	Antenna System For Interference Suppression	10201507015934	J. Shamblin, S. Rowson, L. Desros	6/22/2015
182	4	Foreign Pending Patents, Korea	Antenna	Multi-Frequency Magnetic Dipole Antenna Structures and Methods of Reusing the Volume of an Antenna	1020150056601	L. Desros, B. Matuszews, S. Rowson, J. Shamblin	6/22/2015
183	2	Foreign Pending Patents, China	Antenna	Antenna Configured for Low Frequency Applications	1020107003894	J. Shamblin, S. Rowson, L. Desros	7/22/2015
184	3	Foreign Pending Patents, China	Antenna	Multi-Frequency Magnetic Dipole Antenna Structures and Methods of Reusing the Volume of an Antenna	2009800119992		
185	5	Foreign Pending Patents, EP	Antenna	Antennas With Reduced Space And Improved Performance	5728233.9		
186	6	Foreign Pending Patents, EP	Antenna	Antenna with Volume of Material	3808509.8		
187	7	Foreign Pending Patents, EP	Antenna	Antenna with Active Element	8797723.7		
188	8	Foreign Pending Patents, EP	Active Antenna System	Modal Antenna With Correlation Management for Diversity Applications	8826767.9		
189	9	Foreign Pending Patents, PCT	Active Antenna System	ANTENNA SYSTEM FOR INTERFERENCE SUPPRESSION	PCT/US13/20907		3/19/2014
190	10	Foreign Pending Patents, PCT	Active Antenna System	Reconfigurable multi-mode active antenna system	PCT/US14/31151		1/9/2013
191	11	Foreign Pending Patents, PCT	Active Antenna System	Method for finding Signal's direction using modal antenna	WO 2015/142863 A1	O. Pajota, M. Rae, M. Zaini, S. Rowson, L. Desros	9/24/2015
192	12	Foreign Pending Patents, PCT	System	Modal Antenna Based Communication Network and Methods for Optimization Thereof	WO 2015/145094 A1	L. Desros, J. Shamblin	9/24/2015
193	13	Foreign Pending Patents, PCT	System				

