PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
POWERWAVE TECHNOLOGIES SWEDEN AB	05/08/2013

RECEIVING PARTY DATA

Name:	POWERWAVE TECHNOLOGIES, INC.
Street Address:	1801 E. ST. ANDREW PLACE
City:	SANTA ANA
State/Country:	CALIFORNIA
Postal Code:	92705

PROPERTY NUMBERS Total: 1

Property Type	Number
Patent Number:	6041083

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	PWH_ASSIGN
NAME OF SUBMITTER:	CHRIS A. CASEIRO
SIGNATURE:	/Chris A. Caseiro/
DATE SIGNED:	05/21/2014

Total Attachments: 8
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PATENT ASSIGNMENT

This Patent Assignment (this "Assignment") is made as of May 8, 2013, between POWERWAVE TECHNOLOGIES SWEDEN AB, with an address of Knarrarnasgatan 7 8tr,164 40 Kista, Sweden ("Assignor"), and POWERWAVE TECHNOLOGIES, INC., a Delaware corporation with an address of 1801 E. St. Andrew Place, Santa Ana, California 92705 ("Assignee").

WHEREAS, Assignor was formerly named LGP Allgon AB, LGP Telecom AB and LG Products Solna AB;

WHEREAS, Powerwave Sweden AB (formerly named Allgon AB) assigned to Assignor all right, title and interest in and to all of its patents and patent applications per an Assignment Agreement between Powerwave Sweden AB and Assignor effective November 3, 2008;

WHEREAS, Assignor entered into that certain Technology License Agreement with Assignee effective as of November 3, 2008, pursuant to which Assignor exclusively licensed to Assignee all of its Intellectual Property and Marketing Intangibles (as defined therein) to Assignee;

WHEREAS, Assignor entered into that certain Research and Development Services Agreement effective as of November 8, 2008 ("R&D Agreement") pursuant to which Assignor assigned to Assignee all of its right, title and interest in and to any invention, discovery, process, method, design, know how or any applications, copyrights or patents thereof with respect to any work performed by Assignor for Assignee under the R&D Agreement;

WHEREAS, the Assignor is the owner of all right, title and interest in and to the patents and patent applications listed on the attached Schedule A and Schedule B and one or more inventions described in the patents and patent applications listed on the attached Schedule A and Schedule B (collectively, the "Patent and Patent Applications"); and

WHEREAS, Assignor is desirous of assigning, and Assignee is desirous of obtaining, all right, title and interest in and to the Patent and Patent Applications.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which hereby are acknowledged;

1. Assignor hereby sells, assigns and transfers to Assignee, its successors, assigns and legal representatives, its entire right, title and interest in and to the Patent and Patent Applications, including but not limited to worldwide patent rights, any and all registrations and applications relating thereto, and any renewals, reissues, extensions, continuations and divisionals thereof, and in and to all income, royalties, damages, claims and payments now or hereafter due or payable with respect thereto, the underlying inventions claimed therein, and all priority rights, convention rights and other benefits accruing or to accrue with respect to the filing of applications for patents or the issuance of patents in all countries in respect of the Patent and Patent Applications, and in and to all causes of action, either in law or in equity for past,

present or future infringement, and in and to all rights corresponding to the foregoing throughout the world.

2. Assignor agrees to execute all documents and assist in all proceedings (at the sole cost and expense of Assignee) to perfect, register or record the rights of the Assignee to the Patent and Patent Applications as Assignee may reasonably deem necessary or appropriate. To the extent that Assignor learns after the execution of the Assignment that it is the owner of other patents or patent applications, it will promptly execute such documents as requested by Assignee to transfer title to Assignee. If Assignor does not, within 15 days of presentment, return the requested executed documents, then Assignee is hereby granted a limited power of attorney to execute all such documents on behalf of Assignor. This power of attorney is coupled with an interest and is irrevocable.

3. Assignor hereby authorizes and requests the Director of the United States Patent and Trademark Office, and the corresponding entities or agencies in any applicable countries outside the United States, to issue such letters patent as shall be granted upon the Patent and Patent Applications, or applications based thereon, to Assignee, its successors, assigns and legal representatives.

4. This Assignment shall be governed by, construed and enforced in accordance with the laws of the State of Delaware without regard to any applicable conflicts of law rules or principles.

5. This Assignment may be executed (including by facsimile or other electronic transmission (e.g., portable data format)) with counterpart signature pages or in multiple counterparts, all of which shall be considered one and the same agreement.

6. This Assignment shall not be amended or otherwise modified except by a written agreement dated subsequent to the date of this Assignment and signed on behalf of Assignor and Assignee by their respective duly authorized representatives.

7. Should any part of this Assignment for any reason be declared invalid by a court of competent jurisdiction, such decision or determination shall not affect the validity of any remaining portion, and such remaining portion shall remain in force and effect as if this Agreement had been executed with the invalid portion eliminated; provided, that in the event of a declaration of invalidity the provision, declared invalid shall not invalidate in its entirety, but shall be observed and performed by the parties to the extent such provision is valid and enforceable.

[SIGNATURES APPEAR ON FOLLOWING PAGE]

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by its duly authorized representatives on the day and year first above written.

ASSIGNOR:

POWERWAVE TECHNOLOGIES SWEDEN AB

By: _____
Name: STEN BIDED
Title:

ASSIGNEE:

POWERWAVE TECHNOLOGIES, INC.

By: _____
Name:
Title: DR. RODNEY DIETZ
CRO

Schedule A - Patents

Applic. #	Publication Number (US/PTO)	Patent Number	Country name	Issue Date	Owner (Original assignee)	Title of the patent
08/087,764		5374905	United States of America	20-Dec-1994	ALLGON AB	Phase Locked Loop Motor Control Circuit for Tuning Cavity Resonator
08/836,637		5864259	United States of America	26-Jan-1999	Powerwave Technologies Sweden AB	Measuring line for a coaxial conductor for determining energy throughflow and standing wave ratios
D/043,409		D378,592	United States of America	25-Mar-1997	ALLGON AB	Antenna Device
09/285,071		6005522	United States of America	21-Dec-1999	ALLGON AB	An antenna device with two radiating elements having an adjustable phase difference between the radiating elements
08/750,714		5949306	United States of America	07-Sep-1999	ALLGON AB	Movable dielectric body for controlling propagation velocity in a feed line
08/809,071		5963854	United States of America	05-Oct-1999	Powerwave Technologies Sweden AB	Antenna amplifier
08/796,691		6009324	United States of America	28-Dec-1999	ALLGON AB	Method and device for monitoring a mobile telephone repeater
08/648,027		5809398	United States of America	15-Sep-1998	ALLGON AB	Channel-selective repeater
08/865,068		6020851	United States of America	01-Feb-2000	ALLGON AB	Elongated antenna
08/865,940		5987304	United States of America	16-Nov-1999	ALLGON AB	Repeater with variable bandwidth
08/724,759		5821811	United States of America	13-Oct-1998	ALLGON AB	Bypass device in an amplifier unit
-352918	US6018319	6018319	United States of America	25-Jan-2000	ALLGON AB	Antenna element
08/854,660		6008783	United States of America	28-Dec-1999	ALLGON AB	Flat antenna
09/424,859		6259322	United States of America	03-Jul-2001	ALLGON AB	Microwave resonator with dielectric tuning body resiliently secured to a movable rod by spring means
09/539,435		6320483	United States of America	20-Nov-2001	ALLGON AB	Multi surface coupled coaxial resonator
08/956,786		6002311	United States of America	14-Dec-1999	ALLGON AB	Dielectric TM mode resonator for RF filters
09/260,016		6283425	United States of America	04-Sep-2001	ALLGON AB	Mounting bracket
09/261,173		6198908	United States of America	06-Mar-2001	ALLGON AB	SYSTEM AND A METHOD FOR TRANSFER OF A DIGITAL INFORMATION CARRYING SIGNAL
09/719,542	WO99/66585	6496089	United States of America	17-Dec-2002	ALLGON AB	Device for tuning of a dielectric resonator
09/936,744		6295028	United States of America	25-Sep-2001	ALLGON AB	Dual band antenna
09/109,746		6246727	United States of America	12-Jun-2001	ALLGON AB	Method and system for tuning resonance modules
D/099,480		D429703	United States of America	22-Aug-2000	ALLGON AB	Enclosure for active electronics circuits
D/118,472		D433390	United States of America	07-Nov-2000	ALLGON AB	Enclosure for active electronic circuits with an outer cover
09/774,179		6396366	United States of America	28-May-2002	ALLGON AB	Coaxial cavity resonator
09/334,919		6278341	United States of America	21-Aug-2001	ALLGON AB	Microstrip filter device
09/525,521		6208299	United States of America	27-Mar-2001	ALLGON AB	Dual band antenna arrangement
09/926,695		6600393	United States of America	29-Jul-2003	ALLGON AB	Temperature-compensated rod resonator
09/542,951		6745007	United States of America	01-Jun-2004	ALLGON AB	Method and apparatus for stability margin determination in a repeater
944474.6	EP1186112	1186112	France	13-May-2009	Powerwave Technologies Sweden AB	Method and apparatus for stability margin determination in a repeater
944474.6	EP1186112	60042205	Germany	19-May-2009	Powerwave Technologies Sweden AB	Method and apparatus for stability margin determination in a repeater
09/932,976		6222428	United States of America	24-Apr-2001	ALLGON AB	Tuning assembly for a dielectrical resonator in a cavity
10/069,108		6636126	United States of America	21-Oct-2003	ALLGON AB	Four port hybrid
1916015.9	EP1269563	1269563	France	06-May-2009	Powerwave Technologies Sweden AB	Coaxial cavity resonator, filter and use of resonator component in a filter
1916015.9	EP1269563	60138608	Germany	06-May-2009	Powerwave Technologies Sweden AB	Coaxial cavity resonator, filter and use of resonator component in a filter
09/820,624	2001-0026202	6593832	United States of America	15-Jul-2003	ALLGON AB	Coaxial cavity resonator, filter and use of resonator component in a filter
10/332,373	2004-0028501	7227434	United States of America	05-Jun-2007	ALLGON AB	TUNING SCREW ASSEMBLY
741564	WO0235902	1334649	Sweden	13-Aug-2003	ALLGON AB	Shielded housing
1965808.7	EP1334649	1334649	European Patent Conventio	17-Dec-2008	ALLGON AB	Shielded housing
1965808.7	EP1334649	1334649	France	17-Dec-2008	ALLGON AB	Shielded housing
1965808.7	EP1334649	60137072	Germany	09-Dec-2008	ALLGON AB	Shielded housing
1965808.7	EP1334649	1334649	United Kingdom	25-Mar-2009	ALLGON AB	Shielded housing
1817989.4		ZL01817989.4	China (Peoples Republic)	23-Nov-2005	ALLGON AB	Shielded housing
10/399,789	2004-0036388	6787896	United States of America	07-Sep-2004	ALLGON AB	Shielded housing
4103385.1		HK1060472	Hong Kong	17-Mar-2006	ALLGON AB	Shielded housing
10/399,851	2004-0041740	6906666	United States of America	14-Jun-2005	ALLGON AB	Beam adjusting device
10/416,162	2004-0027290	6831608	United States of America	14-Dec-2004	ALLGON AB	Microwave antenna with patch mounting device
10/433,476	2004-0070467	6816043	United States of America	09-Nov-2004	ALLGON AB	Wave-guide and a connector therefor
1007341	SE0004658	519892	Sweden	22-Apr-2003	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
1820539.9	1481614	CN1244198C	China (Peoples Republic)	01-Mar-2006	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
1270954.9	EP1352470	1352470	European Patent Conventio	11-Feb-2009	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
1270954.9	EP1352470	1352470	United Kingdom	25-Mar-2009	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
10/433,607	2004-0097203	6987427	United States of America	17-Jan-2006	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
11/065,397	2005-0151598	7023293	United States of America	04-Apr-2006	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
1983025.5	EP1345432	60142579	Germany	30-May-2010	Powerwave Technologies Sweden AB	Four port hybrid microstrip circuit of Lange type

Applic. #	Publication Number (US/PTO)	Patent Number	Country name	Issue Date	Owner (Original assignee)	Title of the patent
10/432,617	2004-0061571	6859177	United States of America	22-Feb-2005	ALLGON AB	Four port hybrid microstrip circuit of Lange type
1983026.4	EP1344313	1344313	United Kingdom	02-Jan-2008	Powerwave Technologies Sweden AB	Microwave amplifier with bypass segment
10/432,616	2004-0056710	6864743	United States of America	08-Mar-2005	ALLGON AB	Microwave amplifier with bypass segment
1272437.3	EP1346430	1346430	France	09-Dec-2009	Powerwave Technologies Sweden AB	Method for tuning a radio filter and a system for tuning a radio filter
1272437.3	EP1346430	60140765	Germany	01-Mar-2010	Powerwave Technologies Sweden AB	Method for tuning a radio filter and a system for tuning a radio filter
1272437.3	EP1346430	1346430	United Kingdom	21-Apr-2010	Powerwave Technologies Sweden AB	Method for tuning a radio filter and a system for tuning a radio filter
10/451,142	2004-0097203	7092685	United States of America	15-Aug-2006	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter
2711605.2	EP1378025	60235072	Germany	08-Apr-2010	Powerwave Technologies Sweden AB	CIRCUIT BOARD CONNECTOR
2711605.2	EP1378025	2335975	Spain	23-Apr-2010	Powerwave Technologies Sweden AB	CIRCUIT BOARD CONNECTOR
2711605.2	EP1378025	1378025	United Kingdom	18-Aug-2009	Powerwave Technologies Sweden AB	CIRCUIT BOARD CONNECTOR
10/473,136	2004-0171301	7008265	United States of America	07-Mar-2006	ALLGON AB	CIRCUIT BOARD CONNECTOR
10/555,015	2007-0053129	7471172	United States of America	30-Dec-2008	LGP ALLGON AB	Microwave transmission unit including lightning protection
11/252,388	2006-0111070	7388458	United States of America	17-Jun-2008	Powerwave Technologies Sweden AB	A DC-extracting arrangement and a filter
11/791,376	2008-0036670	8130161	United States of America	06-Mar-2012	Powerwave Technologies Sweden AB	Antenna control system
11/791,421	2007-0290935	7505010	United States of America	17-Mar-2009	Powerwave Technologies Sweden AB	Antenna control system
11/920,879	2009-0040105	7999737	United States of America	16-Aug-2011	Powerwave Technologies Sweden AB	Improved AEDT
6747834.7	EP1915798	1915798	France	24-Aug-2011	Powerwave Technologies Sweden AB	Phase Shifter
0502453-4	SE0502453	529457	Sweden	14-Aug-2007	Powerwave Technologies Sweden AB	General LNA
12/084,445	2009-0256633	7800438	United States of America	21-Sep-2010	Powerwave Technologies Sweden AB	General LNA
0601136-5	SE529885	529885	Sweden	18-Dec-2007	Powerwave Technologies Sweden AB	Dual band antenna arrangement
12/301,999	US20100283702	8269687	United States of America	18-Sep-2012	Powerwave Technologies Sweden AB	Dual band antenna arrangement
0601201-7	SE529953	529953	Sweden	15-Jan-2008	Powerwave Technologies Sweden AB	A control system for controlling the electrical tilt of an antenna
7748171.1	EP2022136	2022136	European Patent Convention	04-Oct-2011	Powerwave Technologies Sweden AB	Down Tilt Control Unit
7748171.1	EP2022136	2022136	Germany	04-Oct-2011	Powerwave Technologies Sweden AB	Down Tilt Control Unit
12/302,788	2010-0289698	8354959	United States of America	15-Jan-2013	Powerwave Technologies Sweden AB	Down Tilt Control Unit
11/920,879	2009-0040105	7999737	United States of America	16-Aug-2011	Powerwave Technologies Sweden AB	Beam adjusting device
0601889-9		530302	Sweden	22-Apr-2008	Powerwave Technologies Sweden AB	Antenna Filter Combination
12/441,373	2009-0295504	8237516	United States of America	07-Aug-2012	Powerwave Technologies Sweden AB	Antenna Filter Combination
0601909-5	SE530306	530306	Sweden	29-Apr-2008	Powerwave Technologies Sweden AB	Communication solution for antennas
12/441,375	2010-0164803	8279127	United States of America	02-Oct-2012	Powerwave Technologies Sweden AB	Communication solution for antennas
12/382,029	2009-0224848	8130165	United States of America	06-Mar-2012	Powerwave Technologies Sweden AB	Transverse phase shifter
0800642-1		532390	Sweden	12-Jan-2010	Powerwave Technologies Sweden AB	Transmission line and a method production of a transmission line
12/406,839	2009-0243763	8228139	United States of America	24-Jul-2012	Powerwave Technologies Sweden AB	Transmission line and a method production of a transmission line
0900515-8	SE533885	533885	Sweden	20-Feb-2011	Powerwave Technologies Sweden AB	Antenna assembly consisting of two or more single array antenna assemblies

Schedule B – Patent Applications

Applic. #	Publication Number (US/PTO)	Patent Number	Country name	Owner (Original assignee)	Title of the patent	Filing Date
1965808.7	EP1334849		Sweden	ALLGON AB	Shielded housing	12-Sep-01
1270954.9	EP1352470		France	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter	12-Dec-01
1270954.9	EP1352470		Germany	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter	12-Dec-01
PCT/SE01/02758	WO0249213		Patent Cooperation Treaty	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter	12-Dec-01
4102678.1			Hong Kong	ALLGON AB	Method for tuning a radio filter and a system for tuning a radio filter	15-Apr-04
6812946.9	EP1943728		European Patent Conventio	Powerwave Technologies Sweden AB	General LNA	30-Oct-06
820/KOLNP/2008			India	Powerwave Technologies Sweden AB	General LNA	30-Oct-06
PCT/SE2006/00122	WO 2007/053077		Patent Cooperation Treaty	Powerwave Technologies Sweden AB	General LNA	30-Oct-06
7748161.2	EP2022139		European Patent Conventio	Powerwave Technologies Sweden AB	Dual band antenna arrangement	22-May-07
PCT/SE2007/00049	WO2007/136333		Patent Cooperation Treaty	Powerwave Technologies Sweden AB	Dual band antenna arrangement	22-May-07
PCT/SE2007/00050	WO2007/139467		Patent Cooperation Treaty	Powerwave Technologies Sweden AB	Down Tilt Control Unit	25-May-07
7808793	EP2052366		European Patent Conventio	Powerwave Technologies Sweden AB	Antenna Filter Combination	31-Aug-07
PCT/SE2007/00075	WO2008/033068		Patent Cooperation Treaty	Powerwave Technologies Sweden AB	Antenna Filter Combination	31-Aug-07
7808808.5	EP2062330		European Patent Conventio	Powerwave Technologies Sweden AB	Communication solution for antennas	12-Sep-07
553/KOLNP/2009			India	Powerwave Technologies Sweden AB	Communication solution for antennas	12-Sep-07
PCT/SE2007/00079	WO 2008/033076		Patent Cooperation Treaty	Powerwave Technologies Sweden AB	Communication solution for antennas	12-Sep-07
0601971-5			Sweden	Powerwave Technologies Sweden AB	Method of manufacturing a traverse electric magnetic (TEM) mode transmission line and such transmission line	22-Sep-06
PCT/SE2007/00083	WO2008036029		Patent Cooperation Treaty	Powerwave Technologies Sweden AB	Method of manufacturing a traverse electric magnetic (TEM) mode transmission line and such transmission line	24-Sep-07
12/442,376	US20090302977		United States of America	Powerwave Technologies Sweden AB	Method of manufacturing a traverse electric magnetic (TEM) mode transmission line and such transmission line	24-Sep-07
7808837.4	EP2064773		European Patent Conventio	Powerwave Technologies Sweden AB	Method of manufacturing a traverse electric magnetic (TEM) mode transmission line and such transmission line	16-Mar-08
9715016.3	EP2248223		European Patent Conventio	Powerwave Technologies Sweden AB	Improved Antenna Isolation II	14-Jan-09
12/392,007	US20090213013		United States of America	Powerwave Technologies Sweden AB	Improved Antenna Isolation II	24-Feb-09
12/624,305	US20100141532		United States of America	Powerwave Technologies Sweden AB	Improved Antenna Isolation II	23-Nov-09
9445008.7	EP2105988		European Patent Conventio	Powerwave Technologies Sweden AB	Transmission line and a method production of a transmission line	18-Mar-09
9445009.5	EP2109183		European Patent Conventio	Powerwave Technologies Sweden AB	Improved Antenna Isolation I	27-Mar-09
9445011.1	EP2124300		European Patent Conventio	Powerwave Technologies Sweden AB	Lighting Protection	15-May-09
12/471,244	US20090296296		United States of America	Powerwave Technologies Sweden AB	Lighting Protection	22-May-09
12/759,582	US20100265150		United States of America	Powerwave Technologies Sweden AB	Antenna assembly consisting of two or more single array antenna assemblies	13-Apr-10
1150395-0			Sweden	Powerwave Technologies Sweden AB	Antenna Array Arrangement and multi band antenna	5-May-11
12165166.6	2521218		European Patent Conventio	Powerwave Technologies Sweden AB	Antenna Array Arrangement and multi band antenna	23-Apr-12
1150395-8			Sweden	Powerwave Technologies Sweden AB	Reflector and a multiband antenna	5-May-11
12446505.5	2521219		European Patent Conventio	Powerwave Technologies Sweden AB	Reflector and a multiband antenna	23-Apr-12
1509031			Sweden	Powerwave Technologies Sweden AB	DUAL POLARIZED DIPOLE ANTENNA	30-Oct-12