

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3069922

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the LIST OF PATENTS ASSIGNED TO EXCLUDE US PATENT NO. 6617817 previously recorded on Reel 031871 Frame 0293. Assignor(s) hereby confirms the ASSIGNMENT OF RIGHTS TO THE NAMED ASSIGNEE FOR ALL OF THE OTHER ITEMS SUBMITTED HEREWITH.

CONVEYING PARTY DATA

Name	Execution Date
POWERWAVE FINLAND OY	05/07/2013

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: 26

Property Type	Number
Application Number:	13478018
Application Number:	13293831
Application Number:	13293817
Application Number:	13163530
Application Number:	12594259
Patent Number:	8150353
Patent Number:	7821354
Patent Number:	8149074
Patent Number:	8188934
Patent Number:	7567146
Patent Number:	8130874
Patent Number:	7864111
Patent Number:	8125296
Patent Number:	7236069
Patent Number:	7482897
Patent Number:	7466970
Patent Number:	7526263
Patent Number:	7180391

PATENT

Property Type	Number
Patent Number:	6927646
Patent Number:	6710684
Patent Number:	6570472
Patent Number:	6366184
Patent Number:	6329889
Patent Number:	6566984
Patent Number:	5304968
Patent Number:	5047739

CORRESPONDENCE DATA

Fax Number: (207)219-8426

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.

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Email: ccaseiro@caseioburke.com

Correspondent Name: CHRIS A. CASEIRO

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Address Line 2: P. O. BOX 610

Address Line 4: SCARBOROUGH, MAINE 04070

ATTORNEY DOCKET NUMBER: PWH_PWV_CORRECT_RF031871

NAME OF SUBMITTER: CHRIS A. CASEIRO

SIGNATURE: /Chris A. Caseiro/

DATE SIGNED: 10/17/2014

Total Attachments: 10

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
POWERWAVE FINLAND OY	05/07/2013
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: 27	
Property Type	Number
Application Number:	13478018
Application Number:	13293831
Application Number:	13293817
Application Number:	13613530
Application Number:	12594259
Patent Number:	8150353
Patent Number:	7821354
Patent Number:	8149074
Patent Number:	8188934
Patent Number:	7567146
Patent Number:	8130874
Patent Number:	7864111
Patent Number:	8125296
Patent Number:	7236069
Patent Number:	7482897
Patent Number:	7466970

PATENT

REEL: 034038 FRAME: 0853 7/29/2014

Patent Number:	7526263
Patent Number:	7180391
Patent Number:	6927646
Patent Number:	6617817
Patent Number:	6710684
Patent Number:	6570472
Patent Number:	6366184
Patent Number:	6329889
Patent Number:	6566984
Patent Number:	5304968
Patent Number:	5047739

CORRESPONDENCE DATA

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 Address Line 1: VERRILL DANA, LLP
 Address Line 2: ONE PORTLAND SQUARE
 Address Line 4: PORTLAND, MAINE 04101

ATTORNEY DOCKET NUMBER: PWH-PWV_ASSIGNS

NAME OF SUBMITTER: CHRIS A. CASEIRO

Signature: /Chris A. Caseiro/

Date: 01/05/2014

Total Attachments: 8

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RECEIPT INFORMATION

EPAS ID: PAT2667518
 Receipt Date: 01/05/2014

PATENT

REEL: 034038 FRAME: 0854

PATENT ASSIGNMENT

This Patent Assignment (this "Assignment") is made as of May 7, 2013, between POWERWAVE FINLAND OY, with an address of c/o Talenom, Nuottasaarentie 5, 90400 Oulu ("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 Powerwave Oy, and is a successor by way of merger to Powerwave Comtek Oy, which was formerly named Filtronic Comtek Oy, Filtronic LK Oy and LK Products Oy;

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 FINLAND OY

By: Perry Tarnofsky
Name: Perry Tarnofsky
Title: Director

ASSIGNEE:

POWERWAVE TECHNOLOGIES, INC.

By: Bradley Oetiz
Name: BRADLEY OETIZ
Title: CRO

Schedule A - Patents

Schedule B – Patent Applications

Appl. #	Publication Number (USPTO)	Patent Number	Country name	Owner (Original assignee)	Title of the patent
FC/T/188901/03	WO 89/05048		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	A TRANSMISSION LINE RESONATOR
3396067-5	EP 1311362		European Patent Convention	LK PRODUCTS OY (FI)	Bypass arrangement for low-noise amplifier
2004P06416	BR0406416		Brazil	LK PRODUCTS OY (FI)	Resonator filter
2.00495-11	CN1717938		China (Peoples Republic)	LK PRODUCTS OY (FI)	Resonator filter
1896/DEL NLP/2005			India	LK PRODUCTS OY (FI)	Resonator filter
FC/T/2004/001163	WO2004043440		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Arrangement for dividing a filter output signal
FI054770-6	FI054770-6		Brazil	LK PRODUCTS OY (FI)	Arrangement for dividing a filter output signal
2005800284	CN1774832		China (Peoples Republic)	LK PRODUCTS OY (FI)	Arrangement for dividing a filter output signal
FC/T/2005/091426	WO2005091426		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Input arrangement for a low-noise amplifier pair
20040433	FI0504433		Finland	LK PRODUCTS OY (FI)	Input arrangement for a low-noise amplifier pair
20059116-5	FI0509116		Brazil	LK PRODUCTS OY (FI)	Input arrangement for a low-noise amplifier pair
2.00598-11	CN1938998		China (Peoples Republic)	LK PRODUCTS OY (FI)	Input arrangement for a low-noise amplifier pair
577916.3	EP1728295		European Patent Convention	LK PRODUCTS OY (FI)	Input arrangement for a low-noise amplifier pair
5481/DEL NLP/2005			India	LK PRODUCTS OY (FI)	Input arrangement for a low-noise amplifier pair
FC/T/2005/050095	WO2005091428		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Directional coupler
20040450	FI20040450		Finland	LK PRODUCTS OY (FI)	Directional coupler
20040672	FI20040672		Brazil	LK PRODUCTS OY (FI)	Bandstop filter
2.0059428-3	CN19509428-3		China (Peoples Republic)	LK PRODUCTS OY (FI)	Bandstop filter
2.0058E-11	CN1950971		European Patent Convention	LK PRODUCTS OY (FI)	Bandstop filter
5739049.5	EP1756907		India	LK PRODUCTS OY (FI)	Bandstop filter
6442/DEL NLP/2005			Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Bandstop filter
FC/T/2005/091440	WO2005109456		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Adjustable resonator filter
20040786	FI20040786		Finland	LK PRODUCTS OY (FI)	Adjustable resonator filter
FI0504405-7	FI0504405-7		Brazil	LK PRODUCTS OY (FI)	Adjustable resonator filter
2.0059E-11	CN1820890		China (Peoples Republic)	LK PRODUCTS OY (FI)	Adjustable resonator filter
FC/T/2005/091710	WO2005122823		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Adjustable resonator filter
FI051714-8	BR051714		Brazil	LK PRODUCTS OY (FI)	Adjustable resonator filter
200580041668.x	CN101076948		China (Peoples Republic)	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
8603809.2	EP1817845		European Patent Convention	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
3772/DEL NLP/2007			India	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2005/050400	WO2006058964		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
20059285	FI20059285		Finland	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
18970079280	EP1897007		Brazil	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
2.0058E-11	CN101139758		China (Peoples Republic)	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
6725956.4	EP1895980		European Patent Convention	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
IND/EL NLP/2006			India	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2006/050198	WO2006129862		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
18070079831	EP1807007		Brazil	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
2.0059E-11	CN101194431		China (Peoples Republic)	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
6272961.4	EP1889373		European Patent Convention	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
8272/DEL NLP/2007			India	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2006/050204	WO2006131595		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
20059511	FI20059511		Finland	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2006/050411	WO2007038607		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
20059597	FI20059597		Finland	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
20065144	FI20065144		Brazil	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
18060051244	EP1806005		China (Peoples Republic)	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
2.0078E-11	EP1989754		European Patent Convention	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
7704849.4			India	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2007/050079	WO2007099202		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
20060021	FI20060021		Finland	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
PI0621217-4			Brazil	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
6784415.3	FI2006002211		China (Peoples Republic)	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2006/0500189	WO2007039194		European Patent Convention	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
20065272	FI20065272		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
2.0078E-11	EP10749647		Finland	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
FC/T/2007/050198	WO2007125161		China (Peoples Republic)	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end
			Patent Cooperation Treaty	LK PRODUCTS OY (FI)	Filtering arrangement of antenna end

Appl. #	Publication Number (USPTO)	Patent Number	Country basic	Owner (Original assignee)	Title of the patent
20056317	EP20056317		Finland	LK PRODUCTS OY (FI)	DIRECTIONAL COUPLER (Suunniteltuista nauasteilla litsoitettuna)
2.0076E+1	1.01443941		China (Peoples Republic)	POWERWAVE COMTEK OY	DIRECTIONAL COUPLER
7720703.1	EP20222133		European Patent Convention	POWERWAVE COMTEK OY	DIRECTIONAL COUPLER
SC/T/E/007/697216	WO/2007/132061		Patent Cooperation Treaty	LK PRODUCTS OY (FI)	DIRECTIONAL COUPLER
20075309			European Patent Convention	POWERWAVE COMTEK OY	Matchaad Amplifier
8226851	EP2141064		European Patent Convention	POWERWAVE COMTEK OY	Matchaad Amplifier Unit
CO/17/2009/050202	WO/2009/125330		Patent Cooperation Treaty	POWERWAVE COMTEK OY	Matchaad Amplifier Unit
12594.259	US20100146085		United States of America	POWERWAVE COMTEK OY	Resonator coupling tuning arrangement
20105772	EP2409531		Finland	POWERWAVE FINLAND OY	Resonator coupling tuning arrangement
11178340.1	US20120007897		European Patent Convention	POWERWAVE FINLAND OY	Resonator coupling tuning arrangement
13163.530	US20120007897		United States of America	POWERWAVE FINLAND OY	Resonator coupling tuning arrangement
201006188			Finland	POWERWAVE FINLAND OY	Adjustable resonator filter
11187667.8	EP2443917		European Patent Convention	POWERWAVE FINLAND OY	Adjustable resonator filter
131293.817	US20120119850		United States of America	POWERWAVE FINLAND OY	Adjustable resonator filter
20108189			Finland	POWERWAVE COMTEK OY	Adjustable resonator filter
11187668.6	EP2443918		European Patent Convention	POWERWAVE COMTEK OY	Adjustable resonator filter
13293.831	US20120119851		United States of America	POWERWAVE COMTEK OY	Adjustable resonator filter
20115597			Finland	POWERWAVE COMTEK OY	Adjustable resonator filter
12169907.8			European Patent Convention	POWERWAVE FINLAND OY	Wide band adjustable coaxial resonator
134478.018	US20120318735		United States of America	POWERWAVE FINLAND OY	Wide band adjustable coaxial resonator
20115721			Finland	POWERWAVE FINLAND OY	Wide band adjustable coaxial resonator
12171289.7			European Patent Convention	POWERWAVE FINLAND OY	Made band adjustable coaxial resonator
20123682			Finland	POWERWAVE FINLAND OY	Tunable resonator filter and method for tuning coupling between resonators
61863.582			United States of America	POWERWAVE COMTEK OY	Tunable inductive coupling between resonators
					An improved resonator structure for a cavity filter arrangement
					An improved resonator structure for a cavity filter arrangement

PATENT

REEL: 034038 FRAME: 0862

RECORDED: 10/17/2014