# 503357978 06/19/2015

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3404600

SUBMISSION TYPE:		NEW ASSIGNMENT			
ATURE OF CONVEYAN	NCE:	ASSIGNMENT	ASSIGNMENT		
CONVEYING PARTY DA	ΑΤΑ				
		Name	Execution Date		
DIRK R. W. LEIPOLD			06/11/2015		
GEORGE MAXIM			05/21/2015		
BAKER SCOTT			06/19/2015		
NADIM KHLAT			05/25/2015		
AYANTI JAGANATHA F	RAO		06/15/2015		
RECEIVING PARTY DA	та				
Name:		RO DEVICES, INC.			
Street Address:		HORNDIKE ROAD			
City:	GREEN	ISBORO			
State/Country:	NORTH	I CAROLINA			
Postal Code:	27409				
	Total: 1				
PROPERTY NUMBERS Property Type	Total: 1	Number			
Property Type		<b>Number</b> 14449913			
Property Type Application Number:					
Property Type Application Number: CORRESPONDENCE D	ATA				
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be	ATA e sent to	14449913			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if p</i>	ATA e sent to provided	14449913 (919)238-2301 • <b>the e-mail address first; if that is unsucces</b>			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email:	ATA e sent to provided	(919)238-2301 <i>the e-mail address first; if that is unsucces</i> <i>if that is unsuccessful, it will be sent via b</i> 919-238-2300 cstiers@wt-ip.com			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email: Correspondent Name:	ATA e sent to provided	(919)238-2301 (919)238-2301 (9 <i>the e-mail address first; if that is unsucces</i> ( <i>j if that is unsuccessful, it will be sent via b</i> (919-238-2300 (cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C.			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1:	ATA e sent to provided	(919)238-2301 <i>the e-mail address first; if that is unsucces</i> <i>if that is unsuccessful, it will be sent via b</i> 919-238-2300 cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C. 100 REGENCY FOREST DRIVE			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be</i> <i>using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA e sent to provided	(919)238-2301 <b>the e-mail address first; if that is unsuccess</b> <b>if that is unsuccessful, it will be sent via b</b> 919-238-2300 cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C. 100 REGENCY FOREST DRIVE SUITE 160			
Property Type Application Number: CORRESPONDENCE D Fax Number: <i>Correspondence will be using a fax number, if µ</i> Phone: Email: Correspondent Name: Address Line 1: Address Line 2:	ATA e sent to provided	(919)238-2301 <i>the e-mail address first; if that is unsucces</i> <i>if that is unsuccessful, it will be sent via b</i> 919-238-2300 cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C. 100 REGENCY FOREST DRIVE			
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if µ Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provided	(919)238-2301 <b>the e-mail address first; if that is unsuccess</b> <b>if that is unsuccessful, it will be sent via b</b> 919-238-2300 cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C. 100 REGENCY FOREST DRIVE SUITE 160			
Application Number: CORRESPONDENCE D Fax Number: Correspondence will be	ATA e sent to provided	(919)238-2301 <i>the e-mail address first; if that is unsucces</i> <i>if that is unsuccessful, it will be sent via b</i> 919-238-2300 cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C. 100 REGENCY FOREST DRIVE SUITE 160 CARY, NORTH CAROLINA 27518			
Property Type Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if µ Phone: Email: Correspondent Name: Address Line 1: Address Line 2: Address Line 4:	ATA e sent to provided	(919)238-2301 (919)238-2301 (919)238-2301 (919-238-2300 cstiers@wt-ip.com WITHROW & TERRANOVA, P.L.L.C. 100 REGENCY FOREST DRIVE SUITE 160 CARY, NORTH CAROLINA 27518 2867-1300			

**Total Attachments: 10** 

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## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	COOPERATIVE TUNABLE RF FILTERS		
As the below named inventor, I hereby declare that:			
This declaration is directed to: The attached application; or United States application or PCT international application number <u>14/449,913</u> , filed on <u>8/01/2014</u> .			
The above-identifie	d application is made or authorized to be made by me.		
I believe that I am that application.	he original inventor or an original joint inventor of a claimed invention in the		
I hereby acknowled U.S.C. 1001 by fine	ge that any willful false statement made in this declaration is punishable under 18 or imprisonment of not more than five (5) years, or both.		
state of North Carol North Carolina, 274 right, title, and inter	cro Devices, Inc., a corporation duly organized and existing under the laws of the ina and having a principal place of business at 7628 Thorndike Road, Greensboro, 09 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire est in and to said invention as described in the specification executed by me th, and any and all Letters Patent which shall be granted therefor.		
NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the above-mentioned application and invention and in and to any and all Letters Patent of the United States which may hereafter be granted therefor, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, the same to be held and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf, and the use and behalf of its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
And for the consideration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its successors and assigns, that at the time of the execution and delivery of these presents I am a joint and lawful owner of the entire right, title and interest in and to the invention, application and Letters Patent above-mentioned and that the same are unencumbered, and that I have good right and lawful authority to sell and convey the same in the manner herein set forth.			
successors and assig learned in the law, s substitution of, or an proceedings, is lawf	ration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its ms, that I will, whenever its counsel or the counsel of its successors and assigns, hall advise that an amendment, division, continuation, continuation-in-part, or ty other proceeding in connection with said application, including interference ul and desirable, sign all papers and drawings, take all rightful oaths, and do all quired to be done for the procurement of valid Letters Patent for said invention, or		

I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, but at its or their expense.

IN WITNESS WHEREOF, I hereunto set my hand and seal.

#### LEGAL NAME OF INVENTOR

Inventor: Dirk Robert Walter Leipold

Date: 06/11/2015

Signature: \_\_\_\_\_

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### DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	COOPERATIVE TUNABLE RF FILTERS			
	d inventor, I hereby declare that:			
This declaration is	This declaration is directed to: The attached application; or International application or PCT international application mumber <u>14/449.913</u> , filed on <u>8/01/2014</u> .			
The above-identifie	xl application is made or authorized to be made by me.			
I believe that I am t application.	he original inventor or an original joint inventor of a claimed invention in the			
19 C .	ge that any willful false statement made in this declaration is punishable under 18 e or imprisonment of not more than five (5) years, or both.			
state of North Caro North Carolina, 274 right, title, and inte	icro Devices, Inc., a corporation duly organized and existing under the laws of the lina and having a principal place of business at 7628 Thorndike Road, Greensboro, 409 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire rest in and to said invention as described in the specification executed by me ith, and any and all Letters Patent which shall be granted therefor.			
consideration, the r sold, assigned, trans right, title and inter all Letters Patent of and all continuation the same to be held and the use and beh Patent may be gran	NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the above-mentioned application and invention and in any and all Letters Patent of the United States which may hereafter be granted therefor, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, the same to be held and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf, and the use and behalf of its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
successors and assignation of the above-mentioned and	And for the consideration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its successors and assigns, that at the time of the execution and delivery of these presents I am a joint and lawful owner of the entire right, title and interest in and to the invention, application and Letters Patent above-mentioned and that the same are unencumbered, and that I have good right and lawful authority to sell and convey the same in the manner herein set forth.			
And for the consideration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its successors and assigns, that I will, whenever its counsel or the counsel of its successors and assigns, learned in the law, shall advise that an amendment, division, continuation, continuation-in-part, or substitution of, or any other proceeding in connection with said application, including interference proceedings, is lawful and desirable, sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for the procurement of valid Letters Patent for said invention, or				

I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, but at its or their expense.

IN WITNESS WHEREOF, I hereunto set my hand and seal.

#### LEGAL NAME OF INVENTOR

Inventor: George Maxim	Date: 05/21/2015
Signature: Maxim	} C
anternet.	

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# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

**************************************				
Title of Invention	COOPERATIVE TUNABLE RF FILTERS			
As the below name	As the below named inventor, I hereby declare that:			
This declaration is	<ul> <li>lirected to: The attached application; or</li> <li>United States application or PCT international application number <u>14/449,913</u>, filed on <u>8/01/2014</u>.</li> </ul>			
The above-identifie	d application is made or authorized to be made by me.			
I believe that I am t application.	he original inventor or an original joint inventor of a claimed invention in the			
	ge that any willful false statement made in this declaration is punishable under 18 or imprisonment of not more than five (5) years, or both.			
state of North Carol North Carolina, 274 right, title, and inter	cro Devices, Inc., a corporation duly organized and existing under the laws of the ina and having a principal place of business at 7628 Thorndike Road, Greensboro, 09 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire est in and to said invention as described in the specification executed by me th, and any and all Letters Patent which shall be granted therefor.			
NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the above-mentioned application and invention and in any to any and all Letters Patent of the United States which may hereafter be granted therefor, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, the same to be held and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf, and the use and behalf of its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.				
successors and assig lawful owner of the above-mentioned an	ration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its ns, that at the time of the execution and delivery of these presents I am a joint and entire right, title and interest in and to the invention, application and Letters Patent d that the same are unencumbered, and that I have good right and lawful authority he same in the manner herein set forth.			
successors and assig learned in the law, s substitution of, or ar proceedings, is lawf	ration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its ns, that I will, whenever its counsel or the counsel of its successors and assigns, hall advise that an amendment, division, continuation, continuation-in-part, or by other proceeding in connection with said application, including interference all and desirable, sign all papers and drawings, take all rightful oaths, and do all puired to be done for the procurement of valid Letters Patent for said invention, or			

tana t

I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to the invention described in said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, but at its or their expense.

IN WITNESS WHEREOF, I hereunto set my hand and seal.

LEGAL NAME OF INVENTOR Date: 6/19/15Jett Inventor: Baker Scott Signature: \_

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2867-13007 IDR (4135

## DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of Invention	COOPERATIVE TUNABLE RF FILTERS
As the below name	I inventor, I hereby declare that:
This declaration is a	lirected to: The attached application; or United States application or PCT international application number <u>14/449,913</u> , filed on <u>8/01/2014</u> .
The above-identifie	d application is made or authorized to be made by me.
I believe that I am t application.	e original inventor or an original joint inventor of a claimed invention in the
Thereby acknowled U.S.C. 1001 by fine	ge that any willful false statement made in this declaration is punishable under 18 or imprisonment of not more than five (5) years, or both.
North Carolina, 274 right, title, and inter	cro Devices, Inc., a corporation duly organized and existing under the laws of the ina and having a principal place of business at 7628 Thorndike Road, Greensboro, 09 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire est in and to said invention as described in the specification executed by me th, and any and all Letters Patent which shall be granted therefor.
sold, assigned, trans right, title and intere ail Letters Patent of and all continuations the same to be held and the use and beha	E, To All Whom It May Concern, be it known that for good and valuable celpt and sufficiency of which is hereby acknowledged. I, the said assignor, have ferred and set over unto the said ASSIGNEE, its successors and assigns, the entire st in and to the above-mentioned application and invention and in and to any and the United States which may hereafter be granted therefor, and in any and to any continuations-in-part, substitutions, divisions or reissues of said Letters Patent, and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf. If of its successors and assigns, to the full end of the term for which said Letters as fully and entirely as the same would have been held and enjoyed by me had sale not been made.
lawful owner of the above-mentioned and	ation aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its hs, that at the time of the execution and delivery of these presents I am a joint and entire right, title and interest in and to the invention, application and Letters Patent I that the same are unencumbered, and that I have good right and lawful authority e same in the manner herein set forth.
learned in the law, st substitution of, or an proceedings, is kiwfu acts necessary or req.	ation aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its is, that I will, whenever its counsel or the counsel of its successors and assigns, all advise that an amendment, division, continuation, continuation-in-part, or other proceeding in connection with said application, including interference I and desirable, sign all papers and drawings, take all rightful oaths, and do all ired to be done for the procurement of valid Letters Patent for said invention, or

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PATENT REEL: 035977 FRAME: 0073

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2867-1300 / IDR 14135

for the reasure of the same without charge to the said ASSIGNEE, its successors or assigns, but at its or their expense.  I hereby request the Commissioner for Patentis to issue the Letters Patent in accordance with this instrument.  For the consideration aforesaid. I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to one yand on the total states and in and to the invention. Here are in the name of its successor, assigned, or one of the second in the one of the said ASSIGNEE, its successors, assigns or nomine, the angle in countries foreign to the United States and in and to the invention in its own name or in the name of its successor, assigned, or only and all catters patients on a solid invention in its own name or in the name of its successor, assigned, or nomine, in any and all tests the second agree to sign all papers and drawings, take all rightful onths, and do all and gree to sign all papers and drawings, take all rightful onths, and do all acts the cessary or required to be due for procurement of Letters Patient, or other form of protection, for said inventions in countries foreign to the United States, and for further investing or confirming the right and the therein to the ASSIGNEE, its successor, assignee, or nomine, in any desire to a said assist to easier as drawings, take all rightful onths, and do all acts the easier of the said ASSIGNEE, its successor, assignee, or nomine, in any cesire confirming the right and the therein to the ASSIGNEE, its assocrates, assignee, or nomine, in any cesire or their expense.  IN WITNESS WHEREOF, I hereunto set my hand and seal.  LEGAL NAME OF INVENTOR  Inventor: Nadim Khilat  Signature:  Signature:  Mathematical assocrates and and seal.  Assocrates assocrates and and seal.  Assocrates assocrates assocrates assocrates assocrates assocrates assocrates assocrates assocrates assoc	their expense. I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument. For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to the invention described in said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee, or nominee, its successor, and or further investing or confirming the right and title therein to the ASSIGNEE, its successor, assignee, or nominee, its successor, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee, or nominee, its successor, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee, or nominee, in any and for further investing or confirming the right and title therein to the ASSIGNEE, its successor,	 2807-1007 10 K14155
For the consideration aforesaid. I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successor, assigns or nominee, the entire right, title and interest in audit to any and all Letters Patent for said invention which may be filed for such incomeries foreign to the functed States and in and to the any he may be filed for such incomeries foreign to the functed States and in and to the invention in countries foreign to the functed States and in and to the invention in countries foreign to the functed States and in and to the invention in successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed for and agree to sign all papers and drawings, take all rightful oaths, and to all acuts invention rings for eign in the functions of protection, for said invention in the source of the successor, assignee, or nominee, in any and all countries where it may desire to said the application and where said application may be filed by another than the inventor, and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and to all acuts invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successor, assignee, or nominee, but at its or their expense. IN WITNESS WHEREOF, I hereunto set my hand and seal: LEGAL NAME OF INVENTOR Inventor: Nadim Khia May and and seal. LEGAL NAME OF INVENTOR Signature:	Institution. For the consideration aforesaid, Thave sold, assigned, transferred and set over, and by these presents, the and exits in and to any and all Letters Patent for said investion which may be granted in countries foreign to the United States and in mad to any applications for Letters Patent which may be filed for said investion in countries foreign to the United States and and to the investion assigns or nomines to help by pathorize and empower the said ASSIGNEE, it is successor, assigned, or nomines, in any and all countries where it may desire to file such application and where said application may be filed by another than and to the investor. The issue constrained to be done for procentment on the form of by another than the investor. The solution on the file filed by another than the investor and I hereby covenant and agrees to sign all papers and drawings, take all rightful earth, and do all ears the easary or required to be done for procentment on I Letters Patent, by another there, but all countries where the investors and a countries foreign to the United States, and for first investing or confined to be done for procentment on I Letters Patent, by another there, without charge to the said ASSICINEE, its successors, assigned or nominee, without charge to the said ASSICINEE, its successor, assigned or nominee, but at its or their expense. IN WITNESS WHEREOP, I hereunto set my hand and seal.	 for the reissue of the same without charge to the said ASSIGNEE, its successors or assigns, but at its or their expense.
do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, tilde and interest is and to any and all Letters Patent for said invention which may be filed for said invention in countries foreign to the United States and in and to the invention described in said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on suid invention in a described in said application; and I hereby authorize and any and all countries where it may desire to file such application and where said application may be filed by another than the invention; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, or said invention in rowntines in countries foreign to the United States, and for further investing or confirming the right and tile threin to the ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee, or nominee, without charge to the said ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successors, assignee or nominee, but at its or their expense. IN WITNESS WHEREOF, I hereunto set my hand and seal. LEGAL NAME OF INVENTOR Inventor: Nadim Khiat Date: <u>97</u> <u>104</u> <u>204</u> <u>30</u> Signature:	do sell, assign, tauster and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the enture right, tile and interest in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to the invention described in said application; and I hereby authorize and empower the said ASSIGNEE, its successor, assigner, or nominee, its and application on said invention into wore name or in the name of its successor, assigner, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the invention into wore name or in the name of its successor, assigner, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another form of protection, for said invention intions in countries foreign to the United States, and for further investing or confirming the right and tile therein to the ASSIGNEE, its successor, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee or nominee, but at its or their expense. IN WITNESS WHEREOF, I hereunto set my hand and seal. LECAL NAME OF INVENTOR Inventor: Nadim Khia Signature:	I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.
LEGAL NAME OF INVENTOR Inventor: Nadim Khlat Signature:	LEGAL NAME OF INVENTOR  Inventor: Nadim Khita Signature:	do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to the invention described in said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE its successor, assignee, or nomine the same or invention and where solve and the same of Letters Patent, or other form of protection, for said
Inventor: Nadim Khilat Signature:	Inventor: Nadim Khlar Signature:	
Signature:	Signature:	LEGAL NAME OF INVENTOR
Signature: Walling	Signature:	Inventor: Nadim Khlat Date: 25 1 an 2015
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# DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE

Title of ' Invention	COOPERATIVE TUNABLE RF FILTERS		
As the below name	d inventor, I hereby declare that:		
This declaration is o	<ul> <li>lirected to: The attached application; or</li> <li>United States application or PCT international application number <u>14/449,913</u>, filed on <u>8/01/2014</u>.</li> </ul>		
The above-identifie	d application is made or authorized to be made by me.		
I believe that I am t application.	he original inventor or an original joint inventor of a claimed invention in the		
	ge that any willful false statement made in this declaration is punishable under 18 or imprisonment of not more than five (5) years, or both.		
state of North Carol North Carolina, 274 right, title, and inter	cro Devices, Inc., a corporation duly organized and existing under the laws of the ina and having a principal place of business at 7628 Thorndike Road, Greensboro, 09 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire est in and to said invention as described in the specification executed by me th, and any and all Letters Patent which shall be granted therefor.		
NOW, THEREFORE, To All Whom It May Concern, be it known that for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I, the said assignor, have sold, assigned, transferred and set over unto the said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to the above-mentioned application and invention and in and to any and all Letters Patent of the United States which may hereafter be granted therefor, and in any and to any and all continuations, continuations-in-part, substitutions, divisions or reissues of said Letters Patent, the same to be held and enjoyed by the said ASSIGNEE, for its interest, and for its own use and behalf, and the use and behalf of its successors and assigns, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by me had this assignment and sale not been made.			
successors and assignation lawful owner of the above-mentioned ar	ration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its gas, that at the time of the execution and delivery of these presents I am a joint and entire right, title and interest in and to the invention, application and Letters Patent id that the same are unencumbered, and that I have good right and lawful authority he same in the manner herein set forth.		
successors and assig learned in the law, s substitution of, or an proceedings, is lawf	ration aforesaid, I hereby covenant and agree to and with the said ASSIGNEE, its ms, that I will, whenever its counsel or the counsel of its successors and assigns, hall advise that an amendment, division, continuation, continuation-in-part, or ny other proceeding in connection with said application, including interference ful and desirable, sign all papers and drawings, take all rightful oaths, and do all quired to be done for the procurement of valid Letters Patent for said invention, or		

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I hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

For the consideration aforesaid, I have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which may be granted in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said invention in countries foreign to the United States and in and to any applications for Letters Patent which may be filed for said application; and I hereby authorize and empower the said ASSIGNEE, its successors, assigns or nominees to apply for Letters Patent or other form of protection on said invention in its own name or in the name of its successor, assignee, or nominee, in any and all countries where it may desire to file such application and where said application may be filed by another than the inventor; and I hereby covenant and agree to sign all papers and drawings, take all rightful oaths, and do all acts necessary or required to be done for procurement of Letters Patent, or other form of protection, for said invention or inventions in countries foreign to the United States, and for further investing or confirming the right and title therein to the ASSIGNEE, its successors, assignee, or nominee, without charge to the said ASSIGNEE, its successor, assignee or nominee, but at its or their expense.

IN WITNESS WHEREOF, I hereunto set my hand and seal.

#### LEGAL NAME OF INVENTOR

Inventor: Jayanti Jaganatha Rao			6/15/2015	
Signature: J-V-S. Jagooutha	<u>Pai</u>			