

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3885929

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	SECURITY INTEREST
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
QRC, LLC	05/20/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BANK OF AMERICA, N.A.
<b>Street Address:</b>	8300 GREENSBORO DRIVE
<b>City:</b>	MCLEAN
<b>State/Country:</b>	VIRGINIA
<b>Postal Code:</b>	22102
<b>PROPERTY NUMBERS Total: 8</b>	
<b>Property Type</b>	<b>Number</b>
Patent Number:	8763004
Patent Number:	8976906
Patent Number:	8982971
Application Number:	13900664
Application Number:	14072269
Application Number:	14265211
Application Number:	14809638
Application Number:	14974085
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(404)885-3900
<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>	
<b>Phone:</b>	4048853868
<b>Email:</b>	rusty.close@troutmansanders.com
<b>Correspondent Name:</b>	CHRISTOPHER CLOSE
<b>Address Line 1:</b>	TROUTMAN SANDERS LLP
<b>Address Line 2:</b>	600 PEACHTREE STREET NE, SUITE 5200
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30308-2216
<b>ATTORNEY DOCKET NUMBER:</b>	200207.000094
<b>NAME OF SUBMITTER:</b>	CHRISTOPHER CLOSE
<b>SIGNATURE:</b>	/Christopher Close/

PATENT

<b>DATE SIGNED:</b>	05/24/2016
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**Total Attachments: 4**

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NOTICE  
OF  
GRANT OF SECURITY INTEREST  
IN  
PATENTS

United States Patent and Trademark Office

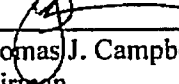
Ladies and Gentlemen:

Please be advised that pursuant to the Security and Pledge Agreement dated as of May 20, 2016 (as amended, modified, extended, restated, renewed, replaced, or supplemented from time to time, the "Agreement") by and among the Grantors party thereto (each a "Grantor" and collectively, the "Grantors") and Bank of America, N.A., as administrative agent (the "Administrative Agent") for the Secured Parties referenced therein, the undersigned Grantor has granted a continuing security interest in and continuing lien upon the patents and patent applications shown on Schedule 1 attached hereto to the Administrative Agent for the ratable benefit of the Secured Parties.

The undersigned Grantor and the Administrative Agent, on behalf of the Secured Parties, hereby acknowledge and agree that the security interest in the foregoing patents and patent applications (a) may only be terminated in accordance with the terms of the Agreement and (b) is not to be construed as an assignment of any patent or patent application.

Very truly yours,

QRC, LLC

By:   
Name: Thomas J. Campbell  
Title: Chairman

Acknowledged and Accepted:

BANK OF AMERICA, N.A., as Administrative Agent

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

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Very truly yours,

QRC, LLC

By: \_\_\_\_\_  
Name: Thomas J. Campbell  
Title: Chairman

Acknowledged and Accepted:

BANK OF AMERICA, N.A., as Administrative Agent

By: M Sevilla  
Name: Merica Sevilla  
Title: Senior Vice President

Active 28504322v1 200207.000094

PATENT  
REEL: 038690 FRAME: 0990

Schedule 1

Description	App./Pub. Number	Registration Number
System and Method for RF Digitization and Collection		8,763,004 (06/24/2014)
Method for Spectrum Sensing of Multi-Carrier Signals with Equidistant Sub-Carriers		8,976,906 (03/10/2015)
System for Spectrum Sensing of Multi-Carrier Signals with Equidistant Sub-Carriers		8,982,971 (03/17/2015)
System and Method for Registering Application and Application Transforms on a Radiofrequency Digitization and Collection Device	13/900,664 (05/23/2013)  2014/0325506 (10/30/2014)	
System and Method for Receiving, Storing, Manipulating and Distributing RF Digital Information Files	14/072,269 (11/05/2013)  2014/0129556 (05/08/2014)	
System and Method for RF Digitization and Collection	14/265,211 (04/29/2014)  2014/0325509 (10/30/2014)	
Systems and Methods for Managing Reconfigurable Integrated Circuit Applications on a Radiofrequency Transceiver Device	14/809,638 (07/27/2015)	

Description	App./Pub. Number	Registration Number
Systems and Methods for Emulating an Interference Environment	14/974,085 (12/18/2015)	