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U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

RECORDATION FORM COVER SHEET

Docket No. 2867-267B



PATENTS ONLY	
To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.	
1. Name of conveying party(ies)/Execution Date(s):	2. Name and address of receiving party(ies)
Scott Humphreys	Name:RF Micro Devices, Inc.
Ryan Bunch	Internal Address:
Execution Date(s) 07/26/2004, 07/26/2004	Street Address: 7628 Thorndike Road
Additional name(s) of conveying party(ies) attached? Yes V No	
3. Nature of conveyance:	
✓ Assignment	City: Greensboro
Security Agreement Change of Name	State: NC
Government Interest Assignment	Country: USA Zip: 27409
Executive Order 9424, Confirmatory License	
Other	Additional name(s) & address(es) attached? Yes V No
	document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers at	l tached?
5. Name and address to whom correspondence 6. Total number of applications and patents	
concerning document should be mailed:	involved: 1
Name:Benjamin S. Withrow	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00
Internal Address: Withrow & Terranova, PLLC	✓ Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: P.O. Box 1287	✓ Enclosed
Street Address. F.O. Box 1201	None required (government interest not affecting title)
City: Cary	8. Payment Information
State: NCZip:_27512	a. Credit Card Last 4 Numbers 1002
Phone Number: 919-654-4520	Expiration Date <u>04/2007</u>
	b. Deposit Account Number <u>50-1732</u>
Fax Number: 919-654-4521	Authorized User Name Withrow & Terranova
Email Address:	
9. Signature: John & Witchers	June 20, 2006
Signature	Date

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

06/27/2006 HMARZI1 00000053 11472889 01 FC:8021 40.00 0P ASSIGNMENT

This Assignment made by us, Scott Humphreys, a citizen of the United States of America, residing at 5702 Middlebury Place, City of Greensboro, County of Guilford, State of North Carolina, and Ryan Bunch, a citizen of the United States of America, residing at 3844 Battleground Avenue, #14, City of Greensboro, County of Guilford, State of North Carolina, hereinafter referred to as assignors.

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in COARSE TUNING FOR FRACTIONAL-N SYNTHESIZERS for which we are about to make application for Letters Patent of the United States, and for which we have executed a declaration.

WHEREAS, RF Micro Devices, Inc., a corporation duly organized and existing under the laws of the State of North Carolina and having a principal place of business at 7628 Thorndike Road, City of Greensboro, County of Guilford, State of North Carolina, hereinafter referred to as assignee, is desirous of acquiring the entire right, title and interest in and to said invention as described in the specification executed by us concurrently herewith, 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, we, the said assignors, 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,

> PATENT REEL: 018028 FRAME: 0874

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 us had this assignment and sale not been made.

And for the consideration aforesaid, we 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 we are the joint and lawful owners 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 we have good right and lawful authority to sell and convey the same in the manner herein set forth.

And for the consideration aforesaid, we hereby covenant and agree to and with the said assignee, its successors and assigns, that we 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 for the reissue of the same without charge to our said assignee, its successors or assigns, but at its or their expense.

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

For the consideration aforesaid, we 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

PATENT REEL: 018028 FRAME: 0875 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 we 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 any licution and where said application may be filed by another than the inventor; and we hereby covenant and agree to sign all papers and drawings, take all rightful eaths, 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 our said assignee, its successor, assignee or nominee, but at its or their expense.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

200 July 2004
Date

July 26, 2004

Date

Scott Humphreys

Rvan Bunch

PATENT REEL: 018028 FRAME: 0876

RECORDED: 06/22/2006