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OMB No. 7651-0027 (exp. 6/30/2005)

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



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103118259

Docket No. 2867-332

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):**

Jesse E. Chen  
Patrick Vandenameele  
Steven Thoen  
Alex Zenkin  
Pengfei Zhang

Execution Date(s) 5/06/2005, N/A, N/A, 6/12/2005, 6/15/2005

Additional name(s) of conveying party(ies) attached?  Yes  No

**2. Name and address of receiving party(ies)**

Name: RF Micro Devices, Inc.

Internal Address: \_\_\_\_\_

Street Address: 7628 Thorndike Road

City: Greensboro

State: NC

Country: USA Zip: 27409

Additional name(s) & address(es) attached?  Yes  No

**3. Nature of conveyance:**

- Assignment  Merger
- Security Agreement  Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

**4. Application or patent number(s):**

This document is being filed together with a new application.

A. Patent Application No.(s)

11/143,042

B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Benjamin S. Withrow

Internal Address: Withrow & Terranova, PLLC

Street Address: P.O. Box 1287

City: Cary

State: NC Zip: 27512

Phone Number: 919-654-4520

Fax Number: 919-654-4521

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved:**

1

**7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers 1002  
Expiration Date 04/2007

b. Deposit Account Number \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

Benjamin S. Withrow

Signature

November 4, 2005

Date

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

42

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

11/08/2005 SFELEKE1 0000042 11143042 40.00 DP 01 FC:8021

**Additional Conveying Parties**  
**U.S. Patent Application Serial No. 11/143,042**

<i>Additional Conveying Parties</i>	<i>Execution Date</i>
Peter Hanson	4/30/2005
Dmitri Varsanofiev	4/30/2005
Peter Cnudde	5/02/2005

## ASSIGNMENT

This Assignment made by us, **Jesse E. Chen**, a citizen of the United States of America, residing at 445 Pala Avenue, City of Sunnyvale, State of California; **Patrick Vandenameele**, a citizen of Belgium, residing at Baanakkerweg 3, Bertem 3060, Belgium; **Steven Thoen**, a citizen of Belgium, residing at Brusselsestraat 154 bus 1, Leuven 3000, Belgium; **Alex Zenkin**, a citizen of Russia, residing at 3186 W. Cedar Street, City of Allentown, State of Pennsylvania; **Pengfei Zhang**, a citizen of the United States of America, residing at 101A, Bldg 3, 299 Bisheng Road, Pudong District, Shanghai 201204, P.R. China; **Peter Hanson**, a citizen of the United States of America, residing at 1100 Tewa Court, City of Fremont, State of California; **Dmitri Varsanofiev**, a citizen of the United States of America, residing at 5462 Caminito Vista Lujo, City of San Diego, State of California; and **Peter Cnudde**, a citizen of Belgium, residing at 1245 Lakeside Drive, Apt. 2016, City of Sunnyvale, State of California, hereinafter referred to as assignors.

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **I/Q MISMATCH CALIBRATION OF DIRECT CONVERSION RECEIVERS USING RADIO FREQUENCY NOISE** 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, 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.

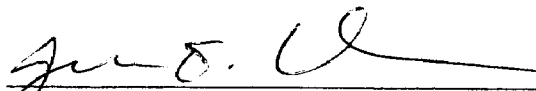
We hereby request the Commissioner for Patents to issue the Letters Patent in accordance with this instrument.

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 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 application 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 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 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.

5/6/05

Date

  
Jesse E. Chen

Date

Patrick Vandenameele

Date

Steven Thoen

Date

Alex Zenkin

Date

Pengfei Zhang

Date

Peter Hanson

Date

Dima Varsanofiev

Date

Peter Cnudde

Date

Jesse E. Chen

Date

Patrick Vandenameele

Date

Steven Thoen

06/12/2005

Date

  
Alex Zenkin

Date

Pengfei Zhang

Date

Peter Hanson

Date

Dmitri Varsanofiev

Date

Peter Cnudde

Date

Jesse E. Chen

Date

Patrick Vandenameele

Date

Steven Thoen

Date

Alex Zenkin

6/15/05

Date

Pengfei Zhang



Date

Peter Hanson

Date

Dmitri Varsanofiev

Date

Peter Cnudde



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Date

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**Jesse E. Chen**

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Date

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**Patrick Vandenameele**

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Date

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**Steven Thoen**

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Date

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**Alex Zenkin**

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Date

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**Pengfei Zhang**

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2005 Apr 30

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Date

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**Peter Hanson**

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Date

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**Dima Varsanofiev**

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Date

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**Peter Cnudde**

Date

Jesse E. Chen

Date

Patrick Vandenameele

Date

Steven Thoen

Date

Alex Zenkin

Date

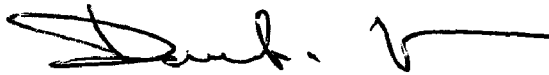
Pengfei Zhang

Date

Peter Hanson

4/30/05

Date



~~Dima Varsanofiev~~  
Dmitri

Date

Peter Cnudde

Date

Jesse E. Chen

Date

Patrick Vandenameele

Date

Steven Thoen

Date

Alex Zenkin

Date

Pengfei Zhang

Date

Peter Hanson

Date

Dima Varsanofiev

5/2/05

Date

  
Peter Cnudde

# Exhibit A

# Exhibit B

# Exhibit C

# Exhibit D

# Exhibit E



Close Window

# Exhibit F

# Exhibit G

# Exhibit H