

12-19-2005



REC

103139134

Docket No. 2867-350A

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):**

David Dening  
Steve Dorn  
Milind Shah  
Yang Rao  
Michael Kay  
Jon Jorgenson

Execution Date(s) 3/21/05

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)

B. Patent No.(s)

12/14/2005 HLE333 00000049 11301039  
04 FC:802 40.00 DP

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 50-1732

Authorized User Name Withrow & Terranova

**9. Signature:**

Signature

December 12, 2005

Date

Benjamin S. Withrow

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 5

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

12-19-05

112963 U.S. PTO  
11/30/039



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## ASSIGNMENT

This Assignment made by us, **David Dening**, a citizen of the United States of America, residing at 180 Jamie Lane, City of Stokesdale, County of Rockingham, State of North Carolina; **Steve Dorn**, a citizen of the United States of America, residing at 425 Patrick Street, City of Eden, County of Rockingham, State of North Carolina; **Milind Shah**, a citizen of India, residing at 1921 New Garden Road, Apt. F306, City of Greensboro, County of Guilford, State of North Carolina; **Yang Rao**, a citizen of China, residing at 8211 Quail Creek Drive, City of Colfax, County of Guilford, State of North Carolina; **Michael Kay**, a citizen of the United States of America, residing at 5237 Creed Drive, City of Summerfield, County of Guilford, State of North Carolina; and **Jon Jorgenson**, a citizen of the United States of America, residing at 5423 Rambling Road, 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 **CIRCUIT BOARD EMBEDDED INDUCTOR** 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

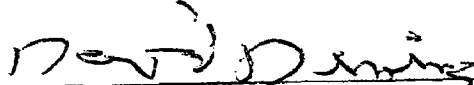
charge to our said assignee, its successors or assigns, but at its or their expense.

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

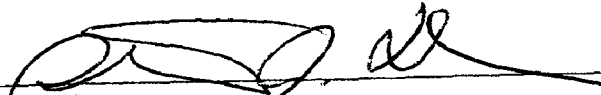
For the consideration aforesaid, we have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto the said assignee, its successors, assigns or nominee, the entire right, title and interest in and to any and all Letters Patent for said invention which 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.

3-21-2005  
Date

  
\_\_\_\_\_  
David Dening

3-21-05  
Date

  
\_\_\_\_\_  
Steve Dorn

3/21/05

Date



Milind Shah

03/21/05

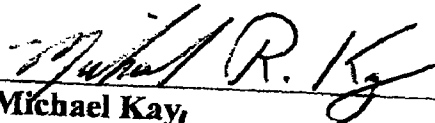
Date



Yang Rao

21-Mar-05

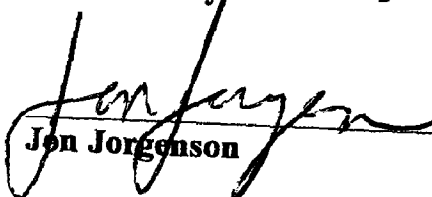
Date



Michael Kay

3/21/05

Date



Jon Jorgenson