

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Kushal Bhattacharjee</td><td>01/15/2007</td></tr><tr><td>Sergei Zhgoon</td><td>01/15/2007</td></tr></tbody></table>		Name	Execution Date	Kushal Bhattacharjee	01/15/2007	Sergei Zhgoon	01/15/2007
Name	Execution Date						
Kushal Bhattacharjee	01/15/2007						
Sergei Zhgoon	01/15/2007						
RECEIVING PARTY DATA							
Name:	RF Micro Devices, Inc.						
Street Address:	7628 Thorndike Road						
City:	Greensboro						
State/Country:	NORTH CAROLINA						
Postal Code:	27409						
PROPERTY NUMBERS Total: 1							
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12014191</td></tr></tbody></table>		Property Type	Number	Application Number:	12014191		
Property Type	Number						
Application Number:	12014191						
CORRESPONDENCE DATA							
Fax Number: (919)238-2301 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
Phone: 919-238-2300							
Email: jalkove@withrowterranova.com							
Correspondent Name: WITHROW & TERRANOVA, P.L.L.C.							
Address Line 1: 100 REGENCY FOREST DRIVE							
Address Line 2: SUITE 160							
Address Line 4: CARY, NORTH CAROLINA 27518							
ATTORNEY DOCKET NUMBER:	2867-379A						
NAME OF SUBMITTER:	Benjamin S. Withrow						
Total Attachments: 4 source=2867-379A_Assignment#page1.tif source=2867-379A_Assignment#page2.tif							

OP \$40.00 12014191

500439635

PATENT
REEL: 020364 FRAME: 0819

source=2867-379A_Assignment#page3.tif

source=2867-379A_Assignment#page4.tif

ASSIGNMENT

This Assignment made by us, **Kushal Bhattacharjee**, a citizen of the United States of America, residing at 7545 Haw Meadows Drive, City of Kernersville, County of Forsyth, State of North Carolina, and **Sergei Zhgoon**, a citizen of Russia, residing at 8-4-158, Bojenko street, City of Moscow, Russia, hereinafter referred to as assignors;

WITNESSETH: That,

WHEREAS, we are the joint inventors of certain new and useful improvements in **IMPROVED PIEZOELECTRIC SUBSTRATE FOR A SAW DEVICE**, 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.

January 15, 2007
Date


Kushal Bhattacharjee

Date

Sergei Zhgoon

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.

Date

Kushal Bhattacharjee

15.01.2007
Date



Sergel Zingon