


Client Code: QCO.299A/092604

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To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<b>1. Name of conveying parties:</b> 1. Manish Kothari 2. Alok Govil  Additional name(s) of conveying party(ies) attached? ( ) Yes (X) No	<b>2. Name and address of receiving party:</b> <b>Name:</b> QUALCOMM MEMS Technologies, Inc. <b>Street Address:</b> 5775 Morehouse Drive <b>City:</b> San Diego <b>State:</b> CA <b>ZIP:</b> 92121  Additional name(s) of receiving party(ies) attached? ( ) Yes (X) No
<b>3. Nature of conveyance:</b> (X) Assignment ( ) Security Agreement ( ) Merger ( ) Change of Name ( ) Other:  <b>Execution Date:</b> 1. February 8, 2011 2. February 3, 2011	<b>4. US or PCT Application number(s) or US Patent number(s):</b>  (X) Patent Application No.: 13,033,423 Filing Date: February 23, 2011  Additional numbers attached? ( ) Yes (X) No
<b>5. Party to whom correspondence concerning document should be mailed:</b>  <b>Customer No.</b> 59,747 <b>Address:</b> Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14 <sup>th</sup> Floor Irvine, CA 92614 <b>Return Fax:</b> (949) 760-9502 <b>Attorney's Docket No.:</b> QCO.299A/092604	<b>6. Total number of applications and patents involved:</b> 1
<b>7. Total fee (37 CFR 1.21(h)):</b> \$40 (X) Authorized to be charged to deposit account	<b>8. Deposit account number:</b> 11-1410  Please charge this account for any additional fees which may be required, or credit any overpayment to this account.
<b>9. Statement and signature.</b>  To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.  <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <u>Thomas R. Arno</u>            Name of Person Signing             40,490            Registration No.         </div> <div style="width: 30%; text-align: center;">             Signature         </div> <div style="width: 30%; text-align: center;"> <u>2/23/11</u>            Date         </div> </div> <p style="text-align: center;">Total number of pages including cover sheet, attachments and document: 3</p>	

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**PATENT**  
**REEL: 025830 FRAME: 0634**

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Application No.: Unassigned  
Filing Date: Herewith

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### ASSIGNMENT

WHEREAS, we, Manish Kothari, a citizen of the United States, having a mailing address at 2581 Junction Ave., San Jose, CA 95134-1923 and residing at 22460 Palm Avenue, Cupertino, California 95014, U.S.A.; and Alok Govil, a citizen of India, having a mailing address at 2581 Junction Ave., San Jose, CA 95134-1923 and residing at 520 Mansion Ct., Apt 102, Santa Clara, California 95054, have invented certain new and useful improvements in MEMS TUNABLE TRANSISTOR for which we caused to be filed an application for Letters Patent in the United States; and we hereby authorize and request the attorneys of Knobbe, Martens, Olson & Bear, LLP, Customer No. 59,747, to insert here in parentheses (Application Number \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known;

AND WHEREAS, QUALCOMM MEMS Technologies, Inc. (hereinafter "ASSIGNEE"), a Delaware corporation, with its principal place of business at 5775 Morehouse Drive, San Diego, California 92121, U.S.A, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred, and set over, and by these presents do hereby sell, assign, transfer, and set over, unto the said ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said application and all provisional application(s) to which said Application claims, or is entitled to claim, priority, and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals, and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this instrument.

AND WE DO HEREBY sell, assign, transfer, and convey to the said ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to the said ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said Letters Patent before or after issuance.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives, and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives, and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

Application No.: Unassigned  
Filing Date: Herewith

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IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 8 day of  
Feb, 2011.

Manish Kothari  
Manish Kothari

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 3 day of  
February, 2011.

Alok Govil  
Alok Govil

IN TESTIMONY WHEREOF, acknowledged by QUALCOMM MEMS Technologies, Inc.  
this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

QUALCOMM MEMS Technologies, Inc.

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