


Client Code: QCO.200C1/051297C1 **RECORDATION FORM COVER SHEET**
PATENTS ONLY

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

<p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>1. Alok Govil 2. Kostadin Djordjev 3. Alan Lewis 4. Wilhelmus Johannes Robertus Van Lier</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: QUALCOMM MEMS Technologies, Inc. Street Address: 5775 Morehouse Drive City: San Diego, CA ZIP: 92121</p> <p>Additional name(s) of receiving party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>1. February 6, 2009 2. February 6, 2009 3. February 10, 2009 4. February 10, 2009</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p><input checked="" type="checkbox"/> Patent Application No.: 13/526192 Filing Date: June 18, 2012</p> <p>Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p>Customer No. 59,747 Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14th Floor Irvine, CA 92614 Return Fax: (949) 760-9502 Attorney's Docket No.: QCO.200C1/051297C1</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>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.</p> <p><u>Eric M. Nelson</u> Name of Person Signing</p> <p> Signature</p> <p><u>6/18/2012</u> Date</p> <p>43,829 Registration No.</p> <p>Total number of pages including cover sheet, attachments and document: 5</p>	

Documents transmitted via Facsimile to be recorded with required cover sheet information to:

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PATENT
REEL: 028427 FRAME: 0288

CH \$40.00 111410 13526192

Application No.: Unassigned
Filing Date: Herewith

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Client Code: QCO.200A/051297
Page 1

ASSIGNMENT

WHEREAS, WE, Alok Govil, a citizen of India, residing at 520 Mansion Court, Apt. 102, Santa Clara, CA 95054; Kostadin Djordjev, a citizen of Bulgaria, residing at 1819 Lencar Way, San Jose, CA 95124; Alan Lewis, a citizen of the U.K., residing at 1610 South Mary Ave., Sunnyvale, CA 94087, and Wilhelmus Johannes Robertus Van Lier, a citizen of the Netherlands, residing at 13522 Benbow Court, San Diego, CA 92129, have invented certain new and useful improvements in an MEASUREMENT AND APPARATUS FOR ELECTRICAL MEASUREMENT OF ELECTRICAL DRIVE PARAMETERS FOR A MEMS BASED DISPLAY, 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, including but not limited to U.S. Provisional Application No. 61/027,770, filed February 11, 2008, 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

PATENT
Client Code: QCO.200A/051297
Page 2

Feb 6, 2009
DATE


ALOK GOVIL

Feb 6, 2009
DATE


KOSTADIN DJORDJEV

2-10-09
DATE


ALAN LEWIS

DATE

WILHELMUS JOHANNES ROBERTUS VAN LIER

IN TESTIMONY WHEREOF, acknowledged by QUALCOMM MEMS Technologies, Inc. this
day of _____, 20__.

QUALCOMM MEMS Technologies, Inc.

Name:
Title:

6598259-gem020509

Application No.: Unassigned
Filing Date: Herewith

PATENT
Client Code: QCO.200A/051297
Page 1

ASSIGNMENT

WHEREAS, WE, Alok Govil, a citizen of India, residing at 520 Mansion Court, Apt. 102, Santa Clara, CA 95054; Kostadin Djordjev, a citizen of Bulgaria, residing at 1819 Lencar Way, San Jose, CA 95124; Alan Lewis, a citizen of the U.K., residing at 1610 South Mary Ave., Sunnyvale, CA 94087, and Wilhelmus Johannes Robertus Van Lier, a citizen of the Netherlands, residing at 13522 Benbow Court, San Diego, CA 92129, have invented certain new and useful improvements in an MEASUREMENT AND APPARATUS FOR ELECTRICAL MEASUREMENT OF ELECTRICAL DRIVE PARAMETERS FOR A MEMS BASED DISPLAY, 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, including but not limited to U.S. Provisional Application No. 61/027,770, filed February 11, 2008, 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

PATENT
Client Code: QCO,200A/051297
Page 2

DATE

ALOK GOVIL

DATE

KOSTADIN DJORDJEV

DATE

ALAN LEWIS

02/10/2009
DATE



WILHELMUS JOHANNES ROBERTUS VAN LIER

IN TESTIMONY WHEREOF, acknowledged by QUALCOMM MEMS Technologies, Inc. this
____ day of _____, 20__.

QUALCOMM MEMS Technologies, Inc.

Name:
Title:

6598259-gen020509