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1. Manish Kothari 2. James Randolph Webster 3. Gaurav Sethi 4. Alok Govil 5. Jonathan Charles Griffiths Additional name(s) of conveying party(ies) attached? () Yes (X) No 3. Nature of conveyance:	Name: QUALCOMM MEMS Technologies, Inc. Internal Address: Street Address: 5775 Morehouse Drive City: San Diego State: CA ZIP: 92121 Additional name(s) of receiving party(ies) attached? () Yes (X) No
(X) Assignment () Security Agreement () Merger () Change of Name () Other: Execution Date: 1. August 19, 2009	 4. US or PCT Application number(s) or US Patent number(s): (X) Patent Application No.: 12/559,0%5 Filing Date: September 14, 2009 Additional numbers attached? () Yes (X) No
 5. Party to whom correspondence concerning document should be mailed: Customer No. 20,995 Address: Knobbe, Martens, Olson & Bear, LLP 2040 Main Street, 14th Floor Irvine, CA 92614 Return Fax: (949) 760-9502 Attorney's Docket No.: QMRC.019A / 090353 	Total number of applications and patents involved: 1
7. Total fee (37 CFR 1.21(h)): \$40 (X) Authorized to be charged to deposit account	Deposit account number: 11-1410 Please charge this account for any additional fees which may be required, or credit any overpayment to this account.
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PATENT

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Application No.: Unassigned

Filing Date: Herewith

ASSIGNMENT

WHEREAS, We, Manish Kothari, a U.S. citizen, having a mailing address at 2581 Junction Ave., San Jose, California 95134-1923 and residing at Cupertino, California, James Randolph Webster, a U.S. citizen, having a mailing address at 2581 Junction Ave., San Jose, California 95134-1923 and residing at San Jose, California, Gaurav Sethi, a U.S. citizen, having a mailing address at 2581 Junction Ave., San Jose, California; Alok Govil, a citizen of India, having a mailing address at 2581 Junction Ave., San Jose, California 95134-1923 and residing at Santa Clara, California, and Jonathan Charles Griffiths, a U.S. citizen, having a mailing address at 2581 Junction Ave., San Jose, California 95134-1923 and residing at Fremont, California have invented certain new and useful improvements in an INTEGRATED LIGHT EMITTING AND LIGHT DETECTING DEVICE 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 19/559, 685, filed 19-14-09) 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, desires to acquire the entire right, title, and interest in and to said improvements and said Application;

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, I, the said inventor, do hereby acknowledge that I 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 I 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.

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AND I 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 I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives, and assigns, any facts known to me 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.

PATENT Attorney Docket: QMRC.019A/090353 Application No.: Unassigned Filing Date: Herewith IN TESTIMONY WHEREOF, I bercunto set my hand and seal this $\frac{\sqrt{3}}{2}$ day of IN TESTIMONY WHEREOF, I hereunto set my hand and seal this $\frac{Z_i^{H}}{2}$ day of $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$. IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 2 day of 1,000, 200%.

Alok Govil

Application No.: Unassigned Filing Date: Herewith	Attorney Docket: QMRC.019A/090353 Page 4
IN TESTIMONY WHERE	EOF, I hereunto set my hand and seal this <u>29</u> day of
	Jonathan Charles Griffiths
IN TESTIMONY WHERE Inc. this day of	OF, acknowledged by QUALCOMM MEMS Technologies,, 20
	QUALCOMM MEMS Technologies, Inc.
	Name: Title:

6930824/bab/040309

RECORDED: 09/14/2009