

PATENT ASSIGNMENT

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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>Jyotindra Raj Shakya</td> <td>10/09/2012</td> </tr> <tr> <td>Russel Allyn Martin</td> <td>10/09/2012</td> </tr> <tr> <td>Ion Bitu</td> <td>10/08/2012</td> </tr> <tr> <td>Donald John Elloway</td> <td>10/08/2012</td> </tr> <tr> <td>Rashmi Raghavendra Rao</td> <td>10/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Jyotindra Raj Shakya	10/09/2012	Russel Allyn Martin	10/09/2012	Ion Bitu	10/08/2012	Donald John Elloway	10/08/2012	Rashmi Raghavendra Rao	10/10/2012
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<table border="1"> <tr> <td>Name:</td> <td>Qualcomm MEMS Technologies, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>5775 Morehouse Drive</td> </tr> <tr> <td>City:</td> <td>San Diego</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92121</td> </tr> </table>		Name:	Qualcomm MEMS Technologies, Inc.	Street Address:	5775 Morehouse Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121		
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CORRESPONDENCE DATA													
<p>Fax Number: 5106630920 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 510-663-1100 Email: lervin@wavsip.com Correspondent Name: Weaver Austin Villeneuve & Sampson LLP Address Line 1: P.O. Box 70250 Address Line 4: Oakland, CALIFORNIA 94612-0250</p>													
NAME OF SUBMITTER:	Michael T. Ho												
<p>Total Attachments: 4 source=121282_QUALP148_Assignment_executed#page1.tif source=121282_QUALP148_Assignment_executed#page2.tif source=121282_QUALP148_Assignment_executed#page3.tif source=121282_QUALP148_Assignment_executed#page4.tif</p>													

CH \$40.00 13538642

ASSIGNMENT

WHEREAS, WE,

1. Jyotindra Raj Shakya, a citizen of Nepal, having a mailing and residential address located at 231 Twinlake Drive, Sunnyvale, California 94089,
2. Russel Allyn Martin, a citizen of United States, having a mailing address located 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Menlo Park, California,
3. Ion Bitu, a citizen of United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Jose, California,
4. Donald John Elloway, a citizen of United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Campbell, California,
5. Rashmi Raghavendra Rao, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Santa Clara, California.

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to ILLUMINATION SYSTEMS INCORPORATING A LIGHT GUIDE AND A REFLECTIVE STRUCTURE AND RELATED METHODS (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM MEMS Technologies, Inc. (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 13/538,642 filed June 29, 2012, Qualcomm Reference No. 121282, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). _____, filed _____, Qualcomm Reference No. _____, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which

may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO 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 or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at 231 Twinlake Dr, on 10-9-2012
LOCATION DATE
Sunnyvale CA


Jyotindra Raj Shukya

Done at _____, on _____
LOCATION DATE

Russel Allyn Martin

Done at _____, on _____
LOCATION DATE

Ion Bitu

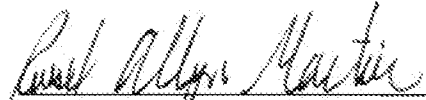
Done at _____, on _____
LOCATION DATE

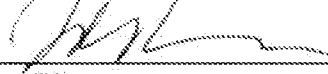
Donald John Elloway


Done at _____, on _____
LOCATION DATE


Rashmi Raghavendra Rao

Done at _____, on _____
LOCATION DATE Jyotindra Raj Shakya

Done at San Jose, CA, on 9 Oct 2012
LOCATION DATE 
Russel Allyn Martin

Done at SAN JOSE, CA, on 8 OCT '12
LOCATION DATE 
Ion Bitu

Done at San Jose, CA, on 10/8/2012
LOCATION DATE 
Donald John Elloway

Done at San Jose, CA, on 10/10/2012
LOCATION DATE 
Rashmi Raghavendra Rao