

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2658187

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>BENJAMIN JOHN BOWERS</td> <td>08/14/2013</td> </tr> <tr> <td>JAMES W. HAYWARD</td> <td>08/15/2013</td> </tr> <tr> <td>CHARANYA GOPAL</td> <td>08/13/2013</td> </tr> <tr> <td>GREGORY CHRISTOPHER BURDA</td> <td>08/15/2013</td> </tr> <tr> <td>ROBERT J. BUCKI</td> <td>08/13/2013</td> </tr> <tr> <td>CHOCK H. GAN</td> <td>08/16/2013</td> </tr> <tr> <td>GIRIDHAR NALLAPATI</td> <td>12/18/2013</td> </tr> <tr> <td>MATTHEW D. YOUNGBLOOD</td> <td>08/15/2013</td> </tr> <tr> <td>WILLIAM R. FLEDERBACH</td> <td>08/16/2013</td> </tr> </tbody> </table>		Name	Execution Date	BENJAMIN JOHN BOWERS	08/14/2013	JAMES W. HAYWARD	08/15/2013	CHARANYA GOPAL	08/13/2013	GREGORY CHRISTOPHER BURDA	08/15/2013	ROBERT J. BUCKI	08/13/2013	CHOCK H. GAN	08/16/2013	GIRIDHAR NALLAPATI	12/18/2013	MATTHEW D. YOUNGBLOOD	08/15/2013	WILLIAM R. FLEDERBACH	08/16/2013
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WILLIAM R. FLEDERBACH	08/16/2013																				
RECEIVING PARTY DATA																					
Name:	QUALCOMM INCORPORATED																				
Street Address:	5775 MOREHOUSE DRIVE																				
City:	SAN DIEGO																				
State/Country:	CALIFORNIA																				
Postal Code:	92121																				
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>13974135</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13974135																
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Application Number:	13974135																				
CORRESPONDENCE DATA																					
Fax Number:	(703)621-7155																				
Phone:	7036217140																				
Email:	meo.docket@mg-ip.com																				
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>																					
Correspondent Name:	MUNCY, GEISSLER, OLDS & LOWE, PLLC_QUALC																				
Address Line 1:	4000 LEGATO ROAD, SUITE 310																				
Address Line 4:	FAIRFAX, VIRGINIA 22033																				

OP \$40.00 13974135

ATTORNEY DOCKET NUMBER:	QC132546
NAME OF SUBMITTER:	TAMI M. PROCOPIO
Signature:	/Tami M. Procopio/
Date:	12/23/2013
Total Attachments: 6 source=132546assign#page1.tif source=132546assign#page2.tif source=132546assign#page3.tif source=132546assign#page4.tif source=132546assign#page5.tif source=132546assign#page6.tif	

ASSIGNMENT

WHEREAS, WE,

1. Benjamin John BOWERS, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Cary, NC,
2. James W. HAYWARD, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Raleigh, NC,
3. Charanya GOPAL, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Raleigh, NC,
4. Gregory Christopher BURDA, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Raleigh, NC,
5. Robert J. BUCKI, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Raleigh, NC,
6. Chock H. GAN, a citizen of Singapore, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, CA,
7. Giridhar NALLAPATI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, CA,
8. Matthew D. YOUNGBLOOD, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Raleigh, NC,
9. William R. FLEDERBACH, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Holly Springs, NC,

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 **METHOD AND APPARATUS FOR A DIFFUSION BRIDGED CELL LIBRARY** (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, QUALCOMM Incorporated (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). 13/974,135 filed August 23, 2013 Qualcomm Reference No. 132546, and all provisional applications relating thereto, together with U.S. Provisional Application No.(s) 61/836,309 filed June 18, 2013, Qualcomm Reference No. 132546P1 (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;

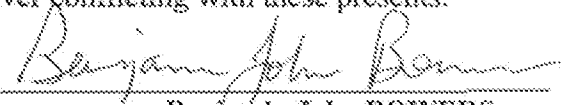
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

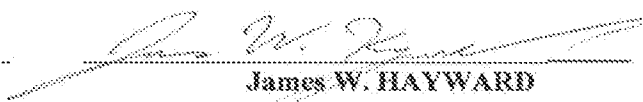
AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date 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

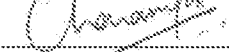
and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

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;

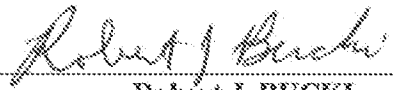
AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Raleigh, NC, on 8/14/13 
LOCATION DATE Benjamin John BOWERS

Done at Raleigh, NC, on 8/15/13 
LOCATION DATE James W. HAYWARD

Done at Raleigh, NC, on 8/13/13 
LOCATION DATE Charanya GOPAL

Done at Raleigh, NC, on 8/15/13 
LOCATION DATE Gregory Christopher BURDA.

Done at Raleigh, NC, on 8/13/13 
LOCATION DATE Robert J. BUCKI

Done at _____, on _____
LOCATION DATE Chock H. GAN

Done at _____, on _____
LOCATION DATE Giridhar NALLAPATI

Done at Raleigh, NC, on 8/15/13 
LOCATION DATE Matthew D. YOUNGBLOOD

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Done at _____, on _____
LOCATION DATE Charanya GOPAL

Done at _____, on _____
LOCATION DATE Gregory Christopher BURDA,

Done at _____, on _____
LOCATION DATE Robert J. BUCKI

Done at San Diego, on 08/16/2013
LOCATION DATE Chock H. GAN

Done at _____, on _____
LOCATION DATE Giridhar NALLAPATI

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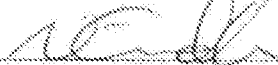
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Done at _____, on _____
LOCATION DATE Robert J. BUCKI

Done at _____, on _____
LOCATION DATE Chuck H. GAN

Done at SAN DIEGO, on 12/18/13
LOCATION DATE 
Giridhar NALLAPATI

Done at _____, on _____
LOCATION DATE Matthew D. YOUNGBLOOD

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Done at Raleigh NC on 8/16/13
LOCATION DATE


William R. FLEDERBACH