

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Ajay A. Ingle</td> <td>02/19/2013</td> </tr> <tr> <td>Marc M. Hoffman</td> <td>02/20/2013</td> </tr> <tr> <td>Jose Fridman</td> <td>02/15/2013</td> </tr> <tr> <td>Lucian Codrescu</td> <td>02/19/2013</td> </tr> </tbody> </table>		Name	Execution Date	Ajay A. Ingle	02/19/2013	Marc M. Hoffman	02/20/2013	Jose Fridman	02/15/2013	Lucian Codrescu	02/19/2013		
Name	Execution Date												
Ajay A. Ingle	02/19/2013												
Marc M. Hoffman	02/20/2013												
Jose Fridman	02/15/2013												
Lucian Codrescu	02/19/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>QUALCOMM Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>5775 Morehouse Drive</td> </tr> <tr> <td>Internal Address:</td> <td>Patent Department</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>92121-1714</td> </tr> </table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	Internal Address:	Patent Department	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121-1714
Name:	QUALCOMM Incorporated												
Street Address:	5775 Morehouse Drive												
Internal Address:	Patent Department												
City:	San Diego												
State/Country:	CALIFORNIA												
Postal Code:	92121-1714												
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>13777297</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13777297								
Property Type	Number												
Application Number:	13777297												
CORRESPONDENCE DATA													
Fax Number: 8586582502 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 858-658-4351 Email: us-docketing@qualcomm.com Correspondent Name: QUALCOMM Incorporated Address Line 1: 5775 Morehouse Drive Address Line 2: Patent Department Address Line 4: San Diego, CALIFORNIA 92121-1714													
ATTORNEY DOCKET NUMBER:	124183												
NAME OF SUBMITTER:	Peter Michael Kamarchik												

CH \$40.00 13777297

Signature:	/Peter Michael Kamarchik/
Date:	04/05/2013
Total Attachments: 5 source=124183_EFAR-REC_as-filed_04-05-2013#page1.tif source=124183_EFAR-REC_as-filed_04-05-2013#page2.tif source=124183_EFAR-REC_as-filed_04-05-2013#page3.tif source=124183_EFAR-REC_as-filed_04-05-2013#page4.tif source=124183_EFAR-REC_as-filed_04-05-2013#page5.tif	

ASSIGNMENT

WHEREAS, WE,

1. **Ajay A. Ingle**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Austin, Texas,
2. **Marc M. Hoffman**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Mansfield, Massachusetts,
3. **Jose Fridman**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Waban, Massachusetts,
4. **Lucian Codrescu**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Austin, Texas,

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 **VECTOR REGISTER ADDRESSING AND FUNCTIONS BASED ON A SCALAR REGISTER DATA VALUE** (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). 13/777,297 filed February 26, 2013, Qualcomm Reference No. 124183, and all provisional applications relating thereto, (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;

PATENT

QUALCOMM Ref. No. 124183

Page 2 of 3

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 AUSTIN, TEXAS, on 19 FEB 2013
LOCATION DATE

Ajay A. Ingle
Ajay A. Ingle

PATENT

REEL: 030158 FRAME: 0083

PATENT

QUALCOMM Ref. No. 124183

Page 3 of 3

Done at Bojingo Ma, on 2/20/2013 
LOCATION DATE Marc M. Hoffman

Done at _____, on _____
LOCATION DATE Jesse Fridman

Done at _____, on _____
LOCATION DATE Lucian Codrescu

PATENT

QUALCOMM Ref No. 124183

Page 3 of 3

Done at _____, on _____
LOCATION DATE

Marc M. Hoffman

Done at Brockton MA, on 2/15/2013
LOCATION DATE

Jose Fridman

Jose Fridman

Done at _____, on _____
LOCATION DATE

Lucian Codrescu

PATENT

REEL: 030158 FRAME: 0085

PATENT

QUALCOMM Ref. No. 124183

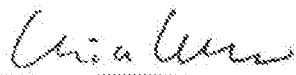
Page 3 of 3

Done at _____, on _____
LOCATION DATE

Marc M. Hoffman

Done at _____, on _____
LOCATION DATE

Jose Fridman

Done at Austin, TX, on 2/19/13
LOCATION DATE
Lucian Codrescu

PATENT

RECORDED: 04/05/2013

REEL: 030158 FRAME: 0086