

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2690506

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>DURGA PRASAD MALLADI</td> <td>11/02/2012</td> </tr> <tr> <td>ALEKSANDAR DAMNJANOVIC</td> <td>10/02/2012</td> </tr> <tr> <td>JUAN MONTOJO</td> <td>10/02/2012</td> </tr> </tbody> </table>		Name	Execution Date	DURGA PRASAD MALLADI	11/02/2012	ALEKSANDAR DAMNJANOVIC	10/02/2012	JUAN MONTOJO	10/02/2012				
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ALEKSANDAR DAMNJANOVIC	10/02/2012												
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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</td> </tr> </table>		Name:	QUALCOMM INCORPORATED	Street Address:	5775 MOREHOUSE DRIVE	Internal Address:	PATENT DEPARTMENT	City:	SAN DIEGO	State/Country:	CALIFORNIA	Postal Code:	92121
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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>14159853</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14159853								
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Application Number:	14159853												
CORRESPONDENCE DATA													
Fax Number:	(858)658-2502												
Phone:	858-658-4351												
Email:	us-docketing@qualcomm.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	QUALCOMM INCORPORATED												
Address Line 1:	5775 MOREHOUSE DR.												
Address Line 2:	PATENT DEPARTMENT												
Address Line 4:	SAN DIEGO, CALIFORNIA 92121												
ATTORNEY DOCKET NUMBER:	061744C1C1												
NAME OF SUBMITTER:	MARION COMER DE YOE												

Signature:	/Marion Comer De Yoe/
Date:	01/21/2014
Total Attachments: 6 source=061744C1C1_Assignment#page1.tif source=061744C1C1_Assignment#page2.tif source=061744C1C1_Assignment#page3.tif source=061744C1C1_Assignment#page4.tif source=061744C1C1_Assignment#page5.tif source=061744C1C1_Assignment#page6.tif	

ASSIGNMENT

WHEREAS, WE,

1. Durga Prasad Malladi, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of San Diego, CA,
2. Aleksandar Dmanjanovic, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Del Mar, CA,
3. Juan Montojo, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Nuremberg, DE,

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 RANDOM ACCESS IN AN ORTHOGONAL MULTIPLE-ACCESS COMMUNICATION SYSTEM** (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). 13/622,998, filed September 19, 2012, Qualcomm Reference No. 061744C1, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 60/839,220, filed August 21, 2006, Qualcomm Reference No. 061744P1, and together with U.S. Provisional Application No. 60/828,058, filed October 3, 2006, Qualcomm Reference No. 070046P1, and together with U.S. Provisional Application No(s). 60/863,610, filed October 31, 2006, Qualcomm Reference No. 061744P2, including U.S. Application No. 11/841,609, filed August 20, 2007, Qualcomm Reference No. 061744, (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;

PATENT
QUALCOMM Ref. No. 061744C1
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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 San Diego on 11/2/12 MD Prasad
LOCATION DATE Durgesh Prasad Malladi

Done at _____ on _____
LOCATION DATE Aleksandar Damjanovic

Done at _____ on _____
LOCATION DATE Juan Montojo

ASSIGNMENT

WHEREAS, WE,

1. **Durga Prasad Malladi**, a citizen of **The United States of America**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of **San Diego, CA**,
2. **Aleksandar Dmanjanovic**, a citizen of **The United States of America**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of **Del Mar, CA**,
3. **Juan Montojo**, a citizen of **The United States of America**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of **Nuremberg, DE**,

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 RANDOM ACCESS IN AN ORTHOGONAL MULTIPLE-ACCESS COMMUNICATION SYSTEM** (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). **13/622,990**, filed **September 19, 2012**, Qualcomm Reference No. **061744C1**, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **60/839,220**, filed **August 21, 2006**, Qualcomm Reference No. **061744P1**, and together with U.S. Provisional Application No. **60/828,058**, filed **October 3, 2006**, Qualcomm Reference No. **070046P1**, and together with U.S. Provisional Application No(s). **60/863,610**, filed **October 31, 2006**, Qualcomm Reference No. **061744P2**, including U.S. Application No. **11/841,609**, filed **August 20, 2007**, Qualcomm Reference No. **061744**, (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 _____, on _____
LOCATION DATE Durga Prasad Malladi

Done at San Diego, on 10/2/12
LOCATION DATE Aleksandar Damjanovic

Done at _____, on _____
LOCATION DATE Juan Montojo

ASSIGNMENT

WHEREAS, WE,

1. **Durga Prasad Malladi**, a citizen of **The United States of America**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714**, and a resident of **San Diego, CA**,
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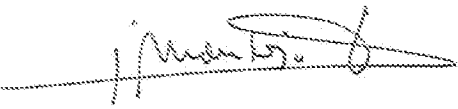
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Done at _____, on _____
LOCATION DATE Durga Prasad Malladi

Done at _____, on _____
LOCATION DATE Aleksandar Damjanovic

Done at Munich, on 10/2/12
LOCATION DATE  Juan Montojo