

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>Liangchi Hsu</td> <td>11/21/2011</td> </tr> <tr> <td>Sitaramanjaneyulu Kanamarlapudi</td> <td>12/05/2011</td> </tr> <tr> <td>Kiran KrishanRao Patil</td> <td>11/15/2011</td> </tr> <tr> <td>Arvindhan Kumar</td> <td>11/21/2011</td> </tr> </tbody> </table>		Name	Execution Date	Liangchi Hsu	11/21/2011	Sitaramanjaneyulu Kanamarlapudi	12/05/2011	Kiran KrishanRao Patil	11/15/2011	Arvindhan Kumar	11/21/2011
Name	Execution Date										
Liangchi Hsu	11/21/2011										
Sitaramanjaneyulu Kanamarlapudi	12/05/2011										
Kiran KrishanRao Patil	11/15/2011										
Arvindhan Kumar	11/21/2011										
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>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	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121
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>13286548</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13286548						
Property Type	Number										
Application Number:	13286548										
CORRESPONDENCE DATA											
<p>Fax Number: (858)658-2502</p> <p>Phone: 858-845-4265</p> <p>Email: us-docketing@qualcomm.com</p> <p><i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: QUALCOMM INCORPORATED</p> <p>Address Line 1: 5775 MOREHOUSE DR.</p> <p>Address Line 4: SAN DIEGO, CALIFORNIA 92121</p>											
ATTORNEY DOCKET NUMBER:	110816										
NAME OF SUBMITTER:	Darren M. Simon										
Total Attachments: 6											

CH \$40.00 13286548

source=110816_2011_12_16_ASSN#page1.tif
source=110816_2011_12_16_ASSN#page2.tif
source=110816_2011_12_16_ASSN#page3.tif
source=110816_2011_12_16_ASSN#page4.tif
source=110816_2011_12_16_ASSN#page5.tif
source=110816_2011_12_16_ASSN#page6.tif

ASSIGNMENT

WHEREAS, WE,

1. **Liangchi Hsu**, 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 **San Diego, CA**,
2. **Sitaramanjaneyulu Kanamarlapudi**, a citizen of **India**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,
3. **Kiran KrishanRao Patil**, a citizen of **India**, having a mailing address located at **Bldg 9,15th Floor Mindspace HiTec City Rd Madhapur Hyderabad, AP 500081 India** and a resident of **Hyderabad, AP**,
4. **Arvindhan Kumar**, a citizen of **India**, having a mailing address located at **5775 Morehouse Drive San Diego, CA 92121** and a resident of **San Diego, CA**,

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 **METHODS AND APPARATUSES FOR DETERMINING AND DISPLAYING SERVICE CAPABILITIES** (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). **13/286,548** filed **November 1, 2011**, Qualcomm Reference No. **110816**, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/433,445**, filed **January 17, 2011**, Qualcomm Reference No. **110816P1**, (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 San Diego, on Nov. 21, 2011
LOCATION DATE

Liangchi Hsu

Done at _____, on _____
LOCATION DATE

Sitaramanjaneyulu Kanamarlapudi

Done at _____, on _____
LOCATION DATE

Kiran KrishanRao Patil

Done at _____, on _____
LOCATION DATE

Arvindhan Kumar

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 Liangchi Hsu

Done at SAN DIEGO, on 12/05/11
LOCATION DATE K. Sitaramanjaneyulu
Sitaramanjaneyulu Kahama/lapudi

Done at _____, on _____
LOCATION DATE Kiran KrishanRao Patil

Done at _____, on _____
LOCATION DATE Arvindhan Kumar

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 **Liangchi Hsu**

Done at _____, on _____
LOCATION DATE **Sitaramanjaneyulu Kanamarlapudi**

Done at Hyderabad, India, on 15th Nov 2011
LOCATION DATE **Kiran Krishan Rao Patil**

Done at _____, on _____
LOCATION DATE **Arvindhan Kumar**

PATENT

QUALCOMM Ref. No. **110816**

Page 3 of 3

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 Liangchi Hsu

Done at _____, on _____
LOCATION DATE Sitaramanjaneyulu Kanamarlapudi

Done at _____, on _____
LOCATION DATE Kiran KrishanRao Patil

Done at SAN DIEGO, on 11/21/2011
LOCATION DATE 
Arvindhan Kumar

PATENT

RECORDED: 12/16/2011

REEL: 027401 FRAME: 0711