

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ANAND KRISHNA PURANIK | 04/28/2014 |
| DEBESH KUMAR SAHU | 04/28/2014 |
| GEORGE CHERIAN | 05/02/2014 |
| TUSHAR GUPTA | 04/28/2014 |
| NISHI KANTA DAS | 04/28/2014 |
| RECEIVING PARTY DATA | |
| Name: | QUALCOMM INCORPORATED |
| Street Address: | 5775 MOREHOUSE DRIVE |
| City: | SAN DIEGO |
| State/Country: | CALIFORNIA |
| Postal Code: | 92121-1714 |
| PROPERTY NUMBERS Total: 2 | |
| Property Type | Number |
| Application Number: | 14270078 |
| Application Number: | 61901813 |
| CORRESPONDENCE DATA | |
| Fax Number: | (303)473-2720 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 3034732700 |
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| Correspondent Name: | J. SCOTT KARREN |
| Address Line 1: | HOLLAND & HART LLP |
| Address Line 2: | P.O. BOX 11583 |
| Address Line 4: | SALT LAKE CITY, UTAH 84110 |
| ATTORNEY DOCKET NUMBER: | PW034.01 (83043.0056) |
| NAME OF SUBMITTER: | J. SCOTT KARREN |
| SIGNATURE: | /J. Scott Karren/ |
| DATE SIGNED: | 05/07/2014 |
| Total Attachments: 6 | |

PATENT

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ASSIGNMENT

WHEREAS, WE,

1. **Anand Krishna Puranik**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,
2. **Debesh Kumar Sahu**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,
3. **George Cherian**, 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, California,
4. **Tushar Gupta**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,
5. **Nishi kanta Das**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,

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 **WIRELESS LOCAL AREA NETWORK ASSISTED NETWORK DETECTION FOR USER EQUIPMENT** (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), _____ filed _____, Qualcomm Reference No. 140352, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/901,813, filed November 8, 2013, Qualcomm Reference No. 140352P1, 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;

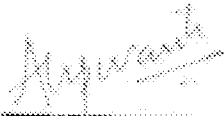
AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, 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 covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Hyderabad, on 28/04/2014 
LOCATION DATE Anand Krishna Puranik

Done at Hyderabad, on 28-04-2014 
LOCATION DATE Debesh Kumar Sahu

Done at _____, on _____
LOCATION DATE George Cherian

Done at Hyderabad/NDA, on 25/04/2014 
LOCATION DATE Tushar Gupta

Done at Hyderabad, on 28/04/2014 
LOCATION DATE Nishi kanta Das

ASSIGNMENT

WHEREAS, WE,

1. **Anand Krishna Puranik**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,
2. **Debesh Kumar Sahu**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,
3. **George Cherian**, 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, California,
4. **Tushar Gupta**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,
5. **Nishi kanta Das**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Hyderabad, India,

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 **WIRELESS LOCAL AREA NETWORK ASSISTED NETWORK DETECTION FOR USER EQUIPMENT** (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), _____ filed _____, Qualcomm Reference No. 140352, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/901,813, filed November 8, 2013, Qualcomm Reference No. 140352P1, 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 covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at _____, on _____
LOCATION DATE Anand Krishna Puranik

Done at _____, on _____
LOCATION DATE Debesh Kumar Sahu

Done at San Diego, on 5/2/2014
LOCATION DATE George Cherian

Done at _____, on _____
LOCATION DATE Tushar Gupta

Done at _____, on _____
LOCATION DATE Nishi kanta Das