

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3693208

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the PROPERTY NUMBER SECTION previously recorded on Reel 032944 Frame 0112. Assignor(s) hereby confirms the ADDITION OF PROVISIONAL SERIAL NUMBER 61/878,543 TO THE PROPERTY LISTING.

**CONVEYING PARTY DATA**

Name	Execution Date
GIRIDHAR DHATI MANDYAM	09/15/2014
ARUNGUNDRAM CHANDRASEKARN MAHENDRAN	12/07/2014
SRINIVASAN BALASUBRAMANIAN	10/27/2014
RAMACHANDRAN SUBRAMANIAN	09/15/2014

**RECEIVING PARTY DATA**

<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714

**PROPERTY NUMBERS Total: 2**

Property Type	Number
Application Number:	14162480
Application Number:	61878543

**CORRESPONDENCE DATA**

**Fax Number:** (214)200-0853  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

**Email:** ipdocketing@haynesboone.com  
**Correspondent Name:** HAYNES AND BOONE, LLP  
**Address Line 1:** 2323 VICTORY AVENUE  
**Address Line 2:** SUITE 700  
**Address Line 4:** DALLAS, TEXAS 75219

<b>ATTORNEY DOCKET NUMBER:</b>	49606.111 (134604)
<b>NAME OF SUBMITTER:</b>	JANIE MARTINEZ-HOLM
<b>SIGNATURE:</b>	/Janie Martinez-Holm/
<b>DATE SIGNED:</b>	01/13/2016

**Total Attachments: 9**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3181080

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the INVENTION SERIAL NUMBER TO ADD SERIAL NUMBER 61/878,543 previously recorded on Reel 032944 Frame 0112. Assignor(s) hereby confirms the ASSIGNMENT.
<b>RESUBMIT DOCUMENT ID:</b>	503106955

## CONVEYING PARTY DATA

Name	Execution Date
GIRIDHAR DHATI MANDYAM	09/15/2014
ARUNGUNDRAM CHANDRASEKARN MAHENDRAN	12/07/2014
SRINIVASAN BALASUBRAMANIAN	10/27/2014
RAMACHANDRAN SUBRAMANIAN	09/15/2014

## RECEIVING PARTY DATA

<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714

## PROPERTY NUMBERS Total: 1

Property Type	Number
<b>Application Number:</b>	14162480 <u>61/878,543</u>

## CORRESPONDENCE DATA

Fax Number: (949)202-3138

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.*

Email: pia.kamath@haynesboone.com

Correspondent Name: HAYNES AND BOONE, LLP

Address Line 1: 2323 VICTORY AVENUE, SUITE 700

Address Line 4: DALLAS, TEXAS 75219

<b>ATTORNEY DOCKET NUMBER:</b>	49606.111 (134604)
<b>NAME OF SUBMITTER:</b>	THUC B. NGUYEN
<b>SIGNATURE:</b>	/Thuc B. Nguyen/
<b>DATE SIGNED:</b>	01/13/2015

Total Attachments: 13  
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ASSIGNMENT

WHEREAS, WE,

1. Giridhar Dhati MANDYAM, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
2. Arungundram Chandrasekarn MAHENDRAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
3. Srinivasan BALASUBRAMANIAN, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
4. Ramachandran SUBRAMANIAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,

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 **PRESENCE AND ON-DEVICE PROXYING** (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). 14/162,480 filed January 23, 2014, Qualcomm Reference No. 134604, and U.S. Application No(s). 61/878,543 filed September 16, 2013, Qualcomm Reference No. 134604P1, 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;

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 SAN FRANCISCO, on 09/19/11  
LOCATION DATE

  
Giridhar Dharti MANDYAM

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

Arungundram Chandrasekarn MAHENDRAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

Srinivasan BALASUBRAMANIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

Ramachandran SUBRAMANIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Giridhar Dhati MANDYAM

Done at SAN DIEGO, on 12 OCT 14  
LOCATION DATE Arun Gundram Chandrasekarn MAHENDRAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Srinivasan BALASUBRAMANIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ramachandran SUBRAMANIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Giridhar Dhati MANDYAM

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Arungundram Chandrasekarn MAHENDRAN

Done at Sun Diego, on 10/27/2014  
LOCATION DATE Srinivasan BALASUBRAMANIAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ramachandran SUBRAMANIAN



Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Giridhar Dhari MANDYAM

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Arungundram Chandrasekari MAHENDRAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Srinivasan BALASUBRAMANIAN

Done at San Diego, on Sep 15, 2014  
LOCATION DATE Rama  
Rama Chandran SUBRAMANIAN



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

MAY 22, 2014

PTAS

HAYNES AND BOONE, LLP  
2323 VICTORY AVENUE, SUITE 700  
DALLAS, TX 75219

**502819392**

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 05/21/2014

REEL/FRAME: 032944/0112  
NUMBER OF PAGES: 8

BRIEF: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

DOCKET NUMBER: 49606.111 (134604)

ASSIGNOR:

MANDYAM, GIRIDHAR DHATI

DOC DATE: 03/03/2014

ASSIGNOR:

MAHENDRAN, ARUNGUNDRAM CHANDRASEKARN

DOC DATE: 05/06/2014

ASSIGNOR:

BALASUBRAMANIAN, SRINIVASAN

DOC DATE: 04/11/2014

ASSIGNOR:

SUBRAMANIAN, RAMACHANDRAN

DOC DATE: 03/04/2014

ASSIGNEE:

QUALCOMM INCORPORATED  
5775 MOREHOUSE DRIVE  
SAN DIEGO, CALIFORNIA 92121-1714

APPLICATION NUMBER: 14162480 61/878,543

FILING DATE: 01/23/2014

PATENT NUMBER:

ISSUE DATE:

TITLE: PRESENCE AND ON-DEVICE PROXYING

ASSIGNMENT RECORDATION BRANCH  
PUBLIC RECORDS DIVISION