

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4877022

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SEID HADI RASOULI	12/06/2013
MICHAEL JOSEPH BRUNOLLI	01/16/2014
CHRISTINE SUNG-AN HAU-RIEGE	01/17/2014
MICKAEL MALABRY	12/06/2013
SUCHETA KUMAR HARISH	12/06/2013
PRATHIBA BALASUBRAMANIAN	01/31/2014
KAMESH MEDISETTI	01/31/2014
NIKOLAY BOMSHTEIN	12/06/2013
ANIMESH DATTA	12/06/2013
OHSANG KWON	12/09/2013
RECEIVING PARTY DATA	
Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15927539
CORRESPONDENCE DATA	
Fax Number:	(202)857-6395
<i>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.</i>	
Phone:	202-857-6000
Email:	patentdocket@arentfox.com,rebecca.golden@arentfox.com
Correspondent Name:	ARENT FOX, LLP
Address Line 1:	1717 K STREET, NW
Address Line 4:	WASHINGTON, D.C. 20006-5344
ATTORNEY DOCKET NUMBER:	030284.16105/132038C1

NAME OF SUBMITTER:	REBECCA GOLDEN
SIGNATURE:	/REBECCA GOLDEN/
DATE SIGNED:	03/21/2018
Total Attachments: 6 source=132038C1_SignedAssignmentFromParent#page1.tif source=132038C1_SignedAssignmentFromParent#page2.tif source=132038C1_SignedAssignmentFromParent#page3.tif source=132038C1_SignedAssignmentFromParent#page4.tif source=132038C1_SignedAssignmentFromParent#page5.tif source=132038C1_SignedAssignmentFromParent#page6.tif	

ASSIGNMENT

WHEREAS, WE,

1. **Seid Hadi RASOULI**, a citizen of Iran, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
2. **Michael Joseph BRUNOLLI**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Escondido, California,
3. **Christine Sung-An HAU-RIEGE**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Fremont, California,
4. **Mickael MALABRY**, a citizen of France, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
5. **Sucheta Kumar HARISH**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
6. **Prathiba BALASUBRAMANIAN**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Bangalore, India,
7. **Kamesh MEDISETTI**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Bangalore, India,
8. **Nikolay BOMSHTEIN**, a citizen of Israel, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
9. **Animesh DATTA**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Diego, California,
10. **Ohsang KWON**, a citizen of South Korea, having a mailing address located at 4842 Yearling Glen Road, San Diego, CA 92130 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 **LAYOUT CONSTRUCTION FOR ADDRESSING ELECTROMIGRATION** (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). 13/975,185 filed August 23, 2013, Qualcomm Reference No. 132038, 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 Diego, on 12/06/13
LOCATION DATE

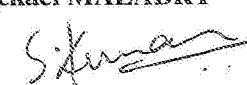
Seid Hadi RASOULI

Done at _____, on _____
LOCATION DATE
Michael Joseph BRUNOLLI

Done at _____, on _____
LOCATION DATE
Christine Sung-An HAU-RIEGE

Done at San Diego, on 12/6/2013
LOCATION DATE

Mickael MALABRY

Done at SAN DIEGO, on 12/06/2013
LOCATION DATE

Sucheta Kumar HARISH

Done at _____, on _____
LOCATION DATE
Prathiba BALASUBRAMANIAN


Done at _____, on _____
LOCATION DATE
Kamesh MEDISETTI

Done at San Diego, on 12/06/2013
LOCATION DATE

Nikolay BOMSHEIN

Done at San Diego, on 12/06/13
LOCATION DATE

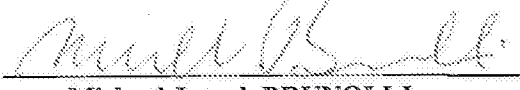
Animesh DATTA

Done at San Diego, on 12/09/13
LOCATION DATE

Ohsang KWON

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
Seid Hadi RASOULI

Done at San Diego, on 1/16/14
LOCATION DATE

Michael Joseph BRUNOLLI

Done at _____, on _____
LOCATION DATE
Christine Sung-An HAU-RIEGE

Done at _____, on _____
LOCATION DATE
Mickael MALABRY

Done at _____, on _____
LOCATION DATE
Sucheta Kumar HARISH

Done at _____, on _____
LOCATION DATE
Prathiba BALASUBRAMANIAN

Done at _____, on _____
LOCATION DATE
Kamesh MEDISETTI

Done at _____, on _____
LOCATION DATE
Nikolay BOMSHTein

Done at _____, on _____
LOCATION DATE
Animesh DATTA


Done at _____, on _____
LOCATION DATE
Ohsang KWON

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 Seid Hadi RASOULI

Done at _____, on _____
LOCATION DATE Michael Joseph BRUNOLLI

Done at Santa Clara, on 1/17/14
LOCATION DATE 
Christine Sung-An HAU-RIEGE

Done at _____, on _____
LOCATION DATE Mickael MALABRY

Done at _____, on _____
LOCATION DATE Sucheta Kumar HARISH

Done at _____, on _____
LOCATION DATE Prathiba BALASUBRAMANIAN

Done at _____, on _____
LOCATION DATE Kamesh MEDISETTI

Done at _____, on _____
LOCATION DATE Nikolay BOMSHTAIN

Done at _____, on _____
LOCATION DATE Animesh DATTA

Done at _____, on _____
LOCATION DATE Ohsang KWON

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 Seid Hadi RASOULI

Done at _____, on _____
LOCATION DATE Michael Joseph BRUNOLLI

Done at _____, on _____
LOCATION DATE Christine Sung-An HAU-RIEGE

Done at _____, on _____
LOCATION DATE Mickael MALABRY

Done at _____, on _____
LOCATION DATE Sucheta Kumar HARISH

Done at Bangalore, on 01/01/2014
LOCATION DATE Prathiba BALASUBRAMANIAN

Done at Bangalore, on 31/01/14
LOCATION DATE Kamesh MEDISETTI

Done at _____, on _____
LOCATION DATE Nikolay BOMSHTAIN

Done at _____, on _____
LOCATION DATE Animesh DATTA

Done at _____, on _____
LOCATION DATE Ohsang KWON