503080915 12/01/2014 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3127520

SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY	DATA				
			Name	Execution Date	
NITESH SHROFF				11/17/2014	
RAMIN REZAIIFAR			11/19/2014		
CHIACHI SUNG				07/10/2014	
RECEIVING PARTY D	ΟΑΤΑ				
Name:	QUAL	COMN	/ Incorporated		
Street Address:	5775 N	Noreho	ouse Drive		
City:	San D	iego			
State/Country:	CALIF	ORNI	A		
Postal Code:	92121	-1714			
Application Number:		1430	9551		
••					
Application Number:6183		8144			
CORRESPONDENCE					
Fax Number:	DAIA	(650)	326-2422		
		o the	e-mail address first; if that is uns		
•	if provide	•	hat is unsuccessful, it will be sent	t via US Mail.	
Phone: 650-3 Email: vmac			millan@kilpatricktownsend.com		
			ATRICK TOWNSEND & STOCKTON LLP		
1			EMBARCADERO CENTER, 8TH FLOOR		
Address Line 4:	,				
ATTORNEY DOCKET NUMBER:			133544 (883648)		
NAME OF SUBMITTER:			CARL SANDERS		
SIGNATURE:		/Carl Sanders/			
DATE SIGNED:		12/01/2014			
otal Attachments: 9			, ,		
olai Allachinenis. 9					
	iment_As_	Filed_	_Dec_1_2014#page1.tif		
ource=133544_Assign			I		

PATENT QUALCOMM Ref. No. 133544 Page 1 of 3

ASSIGNMENT

WHEREAS, WE,

1. Nitesh SHROFF, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, and a resident of San Diego, CA

2. Ramin REZAIIFAR, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, and a resident of Del Mar, CA

3. Chiachi SUNG, a citizen of the United States of America., having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, 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 SYSTEMS AND METHODS TO SUPER RESOLVE A USER-SELECTED REGION OF INTEREST (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). **14/309,551** filed **June 19, 2014**, Qualcomm Reference No. **133544** and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/838,144** filed **June 21, 2013**, Qualcomm Reference No. **133544P1**, (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,

66135297V.1

PATENT REEL: 034291 FRAME: 0359

PATENT QUALCOMM Ref. No. 133544 Page 2 of 3

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.

66135297V.1

PATENT QUALCOMM Ref. No. <u>133544</u> Page 3 of 3

Done at Palo Atto, or	ilizto or	aster
LOCATION	DATE	Nitesh SHROFF
Done at, or	<u>)</u>	
LOCATION	DATE	Ramin REZAIIFAR
Done at, or	1	
LOCATION	DATE	Chiachi SUNG

PATENT QUALCOMM Ref. No. 133544 Page 1 of 3

ASSIGNMENT

WHEREAS, WE,

1. Nitesh SHROFF, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, and a resident of San Diego, CA

2. Ramin REZAIIFAR, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, and a resident of Del Mar, CA

3. Chiachi SUNG, a citizen of the United States of America., having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, 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 SYSTEMS AND METHODS TO SUPER RESOLVE A USER-SELECTED REGION OF INTEREST (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). **14/309,551** filed **June 19, 2014**, Qualcomm Reference No. **133544** and all provisional applications relating thereto, together with U.S. Provisional Application No(s). **61/838,144** filed **June 21, 2013**, Qualcomm Reference No. **133544P1**, (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,

66135297V.1

PATENT REEL: 034291 FRAME: 0362

PATENT QUALCOMM Ref. No. 133544 Page 2 of 3

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.

66135297V.1

Done at	, on		
	LOCATION	DATE	Nitesh SHROFF
Done at	san diego, on	11/19/14	Ruchan
	LOCATION	DATE	Ramin REZAIIFAR
Done at	, on		
	LOCATION	DATE	Chiachi SUNG

QUALCOMM Ref. No. 133544 Page 1 of 3

ASSIGNMENT

WHEREAS, WE,

1. Nitesh SHROFF, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, and a resident of San Diego, CA

2. **Ramin REZAIIFAR**, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, and a resident of Del Mar, CA

3. Chiachi SUNG, a citizen of the United States of America., having a mailing address located at 5775 Morehouse Drive, San Diego, CA, 92121-1714, 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 SYSTEMS AND METHODS TO SUPER RESOLVE A USER-SELECTED REGION OF INTEREST (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). <u>14/309.551</u> filed <u>June 19, 2014</u>, Qualcomm Reference No. <u>133544</u> and all provisional applications relating thereto, together with U.S. Provisional Application No(s). <u>61/838,144</u> filed <u>June 21, 2013</u>, Qualcomm Reference No. <u>133544P1</u>, (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such 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.

PATENT QUALCOMM Ref. No. <u>133544</u> Page 3 of 3

Done at ____ _____, on _____

DATE

Nitesh SHROFF

Done at		, on			
	LOCATION			DATE	
Done at	Sax	\mathcal{D}_{i}	, on	7/10/1+	
	LO	CATION		DATE	

Ramin REZAIIFAR

Chiachi SUNG

66135297V.1

RECORDED: 12/01/2014