PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2999089

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HARISH VENKATACHARI	02/24/2014
PREYAS DEVANGBHAI DESAI	03/12/2014
AYYAPPAN RAVICHANDRAN	02/25/2014
SUNDARESAN TAMBARAM KAILASAM	03/01/2014
UZMA KHAN QAZI	08/14/2014

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14158464

CORRESPONDENCE DATA

Fax Number: (202)857-6395

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.

Phone: (202) 857-6000

Email: DCIPDocket@arentfox.com

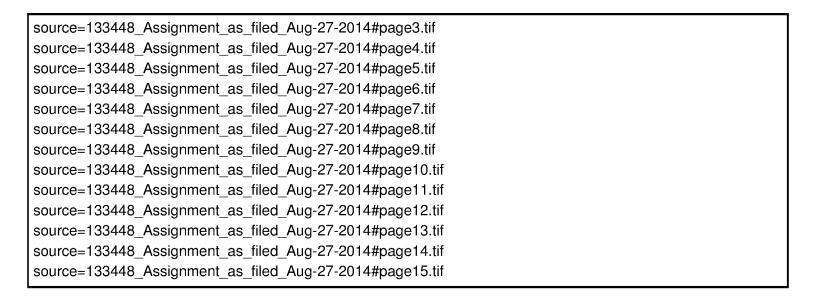
Correspondent Name: ARENT FOX LLP
Address Line 1: 1717 K STREET NW

Address Line 4: WASHINGTON, D.C. 20036

ATTORNEY DOCKET NUMBER:	030284.07092/133448
NAME OF SUBMITTER:	LAYONDA PRUE
SIGNATURE:	/LaYonda P. Prue/
DATE SIGNED:	08/27/2014

Total Attachments: 15

source=133448_Assignment_as_filed_Aug-27-2014#page1.tif source=133448_Assignment_as_filed_Aug-27-2014#page2.tif



WHEREAS, WE,

- 1. **Harish VENKATACHARI,** a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Sunnyvale, CA,
- 2. **Preyas Devangbhai DESAI**, 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,
- 3. **Ayyappan RAVICHANDRAN,** 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,
- 4. **Sundaresan TAMBARAM KAILASAM,** a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 5. **Uzma Khan Qazi**, 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 Marcos, 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 METHOD AND APPARATUS FOR REGAINING SERVICE BY SELECTING A DETECTED CELL NOT INCLUDED IN A NEIGHBOR CELL LIST (NCL) (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. 14/158,464 filed January 17, 2014, Qualcomm Reference No. 133448, and all provisional applications relating thereto, together with U.S. Provisional Application No. 61/840,051, filed June 27, 2013, Qualcomm Reference

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;

PATENT QUALCOMM Ref. No. 133448 Page 3 of 3

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	lyderabad,Ind	on 02/24/2014 DATE	
	LOCATION	DATE	Harish VENKATACHARI
Done at _		, 08	Preyas Devangbhai DESAI
	LOCATION	DATE	Preyas Devangbhai DESAI
Done at _	LOCATION	, on	Ayyappan RAVICHANDRAN
	EXEMPLOY	Dase.	пууарран калтеги кожи
Done at		. OB	
-	LOCATION	, onDATE	Sundaresan TAMBARAM KAILASAM
Done at		, on	,
	LOCATION	DATE	Uzma KHAN

AFDOCS/10527206,1

WHEREAS, WE,

- 1. Harish VENKATACHARI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Sunnyvale, CA,
- 2. **Preyas Devangbhai DESAI**, 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,
- 3. **Ayyappan RAVICHANDRAN**, 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,
- 4. **Sundaresan TAMBARAM KAILASAM,** a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 5. **Uzma Khan Qazi,** 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 Marcos, 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 METHOD AND APPARATUS FOR REGAINING SERVICE BY SELECTING A DETECTED CELL NOT INCLUDED IN A NEIGHBOR CELL LIST (NCL) (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. 14/158,464 filed January 17, 2014, Qualcomm Reference No. 133448, and all provisional applications relating thereto, together with U.S. Provisional Application No. 61/840,051, filed June 27, 2013, Qualcomm Reference

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;

PATENT QUALCOMM Ref. No. 133448 Page 3 of 3

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	Harish VENKATACHARI
Done at _	5gn Diego	_, on_	3/12/2014	Preyas Devangbhai DESAI
	LOCATION		DATE	Preyas Devangbhai DESAI
Done at	LOCATION	_, on _	DATE	Ayyappan RAVICHANDRAN
	Booktook		5336	
Done at		_, on_		Sundaresan TAMBARAM KAILASAM
	LOCATION		DATE	Sundaresan TAMBARAM KAILASAM
Done at		on .		
	LOCATION	···········	DATE	Uzma KHAN

AFDOCS/10527206.1

WHEREAS, WE,

- 1. **Harish VENKATACHARI,** a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Sunnyvale, CA,
- 2. **Preyas Devangbhai DESAI**, 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,
- 3. **Ayyappan RAVICHANDRAN**, 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,
- 4. **Sundaresan TAMBARAM KAILASAM**, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 5. **Uzma Khan Qazi,** 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 Marcos, CA.

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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. 14/158,464 filed January 17, 2014, Qualcomm Reference No. 133448, and all provisional applications relating thereto, together with U.S. Provisional Application No. 61/840,051, filed June 27, 2013, Qualcomm Reference

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PATENT

QUALCOMM Ref. No. 133448

Page 3 of 3

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	Harish VENKATACHARI
Done at		, on	
	LOCATION	DATE	Preyas Devangbhai DESAI
Done at	SAN DEGO	on 02/26/2014 DATE	Ayyappan RAVICHANDRAN
	LOCATION	DATE	Ayyappan RAVICHANDRAN
Done at		. on	
	LOCATION	, on	Sundaresan TAMBARAM KAILASAM
Done at		ON.	
DOGG AL	LOCATION	DATE	Uzma KHAN

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PATENT OF ALCOHOLDS (No. 133448 From 3 of 3

Done at LOCATION DATE Preyas Devengbhai DESAI

Done at LOCATION DATE Ayyappan RAVICHANDRAN

Done at LOCATION DATE Sundaresan TAMBARAM KAILASAM

AND WE HEREBY covenant that WE will not execute any writing or do any act

WHEREAS, WE,

- 1. Harish VENKATACHARI, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Sunnyvale, CA,
- 2. **Preyas Devangbhai DESAI,** 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,
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QUALCOMM Ref. No. 133448

Page 3 of 3

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Done at		. on			
-	LOCATION		DATE	Harish VENKATACHARI	
Done at		, on			
	LOCATION		DATE	Preyas Devangbhai DESAI	
Done at		, on			_
	LOCATION		DATE	Ayyappan RAVICHANDRAN	
Done at .		_, on _		Sundaresan TAMBARAM KAILASAM	
				2014 Ugmakhan	
	LOCATION	· · · ·	atka	Uzma KHAN QAZV	

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RECORDED: 08/27/2014