# 503675405 02/02/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3722041

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:		ASSIGNMENT					
CONVEYING PARTY	ΑΤΑ						
			Name	Execution Date			
SANTOSH PAUL ABRA	АНАМ			07/11/2011			
SIMONE MERLIN				07/08/2011			
HEMANTH SAMPATH				07/25/2011			
RECEIVING PARTY D	ΑΤΑ						
Name:	QUAL	QUALCOMM INCORPORATED					
Street Address:	5775 N	5775 MOREHOUSE DR.					
City:	SAN D	SAN DIEGO					
State/Country:	CALIF	CALIFORNIA					
Postal Code:	92121						
	2 Totolu 1						
PROPERTY NUMBERS Total: 1 Property Type			Number				
Application Number:			0903				
CORRESPONDENCE	DATA						
			658-2502				
			e-mail address first; if that is uns hat is unsuccessful, it will be sen				
<b>-</b>			584265				
Email: paten			t.docketing.us@qualcomm.com				
			MOREHOUSE DR.				
Address Line 4:		SAN	DIEGO, CALIFORNIA 92121				
			102336D1				
ATTORNEY DOCKET N	UMBER:		102336D1				
			102336D1 JUSTIN BURKETT				
NAME OF SUBMITTER:							
ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:			JUSTIN BURKETT				
NAME OF SUBMITTER: SIGNATURE:			JUSTIN BURKETT /Justin Burkett/				
NAME OF SUBMITTER: SIGNATURE: DATE SIGNED:			JUSTIN BURKETT /Justin Burkett/ 02/02/2016				
NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 9 source=102336D1_EXE( source=102336D1_EXE(	CUTED_/	ASSIG	JUSTIN BURKETT /Justin Burkett/ 02/02/2016 GNMENT#page1.tif GNMENT#page2.tif				
NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 9 source=102336D1_EXE	CUTED_/ CUTED_/ CUTED_/	ASSIG ASSIG ASSIG	JUSTIN BURKETT /Justin Burkett/ 02/02/2016 GNMENT#page1.tif GNMENT#page2.tif GNMENT#page3.tif				

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# ASSIGNMENT

WHEREAS, WE,

1. Santosh Paul Abraham, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121, and a resident of San Diego, California, US,

2. Simone Merlin, a citizen of Italy, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121, and a resident of San Diego, California, US,

3. Hemanth Sampath, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121, and a resident of San Diego, California, US,

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 **NETWORK SETUP IN WIDE CHANNEL WIRELESS LOCAL AREA NETWORKS** (WLANS) (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). 13/176,648 filed July 05, 2011, Qualcomm Reference No. 102336, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/361,867, filed July 06, 2010, Qualcomm Reference No. 102336P1, (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, 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;

PATENT QUALCOMM Ref. No. 102336 Page 3 of 3

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at  $\frac{SAN}{LOCATION}$ , on  $\frac{7/11}{DATE}$   $\frac{7}{Santosh Paul Abraham}$ 

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

Si Simone Merlin

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

Hemanth Sampath

### ASSIGNMENT

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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 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 represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	, on		
·	LOCATION	DATE	Santosh Paul Abraham
Done at	SAL DIEGO (A, on _	7/8/11	Some Hele
-	LOCATION	DATE	Simone Merlin
Done at	, on		
-	LOCATION	DATE	Hemanth Sampath

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AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Santosh Paul Abraham Done at \_\_\_\_\_, on \_\_\_\_\_ LOCATION DATE Simone Merlin Done at San Diepo, on OF/25/11 Memoria