PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYP	'E:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PAR	TY DATA			
		Name	Execution Date	
Santosh Paul Abraham			05/07/2013	
George Cherian			04/24/2013	
Amin Jafarian			04/23/2013	
Maarten Menzo W	/entink		04/23/2013	
Simone Merlin			05/22/2013	
RECEIVING PART	Y DATA			
Name:	QUALCOMM	I Incorporated		
Street Address:	5775 Moreho	ouse Drive		
City:	San Diego			
State/Country:	CALIFORNIA	CALIFORNIA		
Postal Code:	92121			
PROPERTY NUMBERS Total: 1 Property Type Number			lumber	
Application Number	er:	13769221		
CORRESPONDEN Fax Number: <i>Correspondence w</i> Email: Correspondent Nau Address Line 1: Address Line 4:	858658 <i>vill be sent via US</i> us-dock me: QUALC 5775 M	2502 <i>Mail when the fax attempt is unsuc</i> eting@qualcomm.com OMM Incorporated orehouse Drive go, CALIFORNIA 92121	cessful.	
ATTORNEY DOCKET NUMBER:		124268U1B1B1		
NAME OF SUBMITTER:		Lisa Nodarse	Lisa Nodarse	
Signature: /Lisa Nodarse/				
502378171			PATENT REFL : 030578 FRAME: 0895	

502378171

Date:	06/10/2013		
Total Attachments: 15			
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ASSIGNMENT

WHEREAS, WE,

- 1. Santosh Paul Abraham, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA.
- 2. George Cherian, a citizen of The United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
- 3. Amin Jafarian, a citizen of IRAN, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of San Diego, CA,
- Maarten Menzo Wentink, a citizen of The Netherlands, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 and a resident of Naarden, The Netherlands,
- 5. Simone Merlin, a citizen of Italy, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121 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, Apparatus and Methods for Association in Multi-Hop Networks (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). 13/769,221 filed February 15, 2013, Qualcomm Reference No. 124268U1B1B1, and all provisional applications relating thereto, together with U.S. Application No(s). 13/756,447, filed January 31, 2013, Qualcomm Reference No. 124268U1B1, U.S. Provisional Application No(s). 61/698,430, filed September 7, 2012, Qualcomm Reference No. 124268P1, (and do hereby authorize ASSIGNEE).

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, Treatics, 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 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	San Diego LOCATION	on <u>6(7)2013</u> DATE	Jan Jan Santosh Paul Abraham
Done at	LOCATION	on DATE	George Cherian
Done at	LOCATION	, on DATE	Amin Jafarian
Done at	LOCATION	, on DATE	Maurten Menzo Wentink
Done at	LOCATION	, on DATE	Simone Merlin

PATENT REEL: 030578 FRAME: 0899

ASSIGNMENT

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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.

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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.

Done at		, on	
	LOCATION	, on DATE	Santosh Paul Abraham
Done at	San Diego	_, on <u>Apr. 24,2013</u>	- Aller
	LOCATION	DATE	George Cherian
Done at		, on	
	LOCATION	DATE	Amin Jafarian
Done at		_, on DATE	
	LOCATION	DATE	Maarten Menzo Wentink
Done at		, 08	
,	LOCATION		Simone Merlin

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Done at		on	
	LOCATION	on DATE	Santosh Paul Abraham
Done at	8	on	
	LOCATION	ON DATE	George Cherian
Done at _	San Diesco, location	on <u>84,23,13</u> DATE	Amin Jafarian
Done at	LOCATION,	on DATE	Maarten Menzo Wentink
Done at	LOCATION ,	on DATE	Simone Merlin

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Done at	, on	
LOCATION	, on DATE	Santosh Paul Abraham
Done at	, on	
LOCATION	DATE	George Chcrian
Done at	, on	
LOCATION	DATE	Amin Jafarian
Done at Naarden	, on23 April 2013	(\mathcal{M})
LOCATION	DATE	Maarten Menzo Wentink
LOCATION	, on DATE	Simone Merlin

ASSIGNMENT

WHEREAS, WE,

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Done at	, 01	
LOCATION	, ou DATE	Santosh Paul Abraham
Done at	, 01	
LOCATION	, on DATE	George Cherian
Done at	, onDATE	
LOCATION	DATE	Amin Jafarian
Done at	, on DATE	
		Maarten Menzo Wentink Samo- Merdar
Done at SAU V/EGO LOCATION	, on	Simone Merlin
ware e exten	2273.3.12	annane archun

RECORDED: 06/10/2013