PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2610845

SUBMISSION TYPE:			VASSIGNMENT		
NATURE OF CONVEYANCE:		ASS	ASSIGNMENT		
CONVEYING PAR	TY DATA				
		Name		Execution Date	
PETER GAAL				10/16/2013	
MARIAM MOTAMI	ED			10/25/2013	
WANSHI CHEN				10/21/2013	
ALEXEI Y. GORO	KHOV			10/07/2013	
DOMINIQUE F. BR	RESSANELLI			10/09/2013	
LEVENT AYDIN				10/25/2013	
Name:			ATED]	
Street Address:	5775 MOREHOUSE DRIVE				
City:	SAN DIEGO				
State/Country:	CALIFORNIA				
Postal Code:	92121-1714				
PROPERTY NUME	BERS Total: 3				
Property Type			Number		
Application Number: 14023		14023438			
Application Number: 61748		61748731			

Number
14023438
61748731
61753900

CORRESPONDENCE DATA

Fax Number:	(202)857-6395		
Phone:	213-629-7400		
Email:	dcipdocket@arentfox.com		
Correspondence will be sent via US Mail when the email attempt is unsuccessful.			
Correspondent Name:	ARENT FOX, LLP		
Address Line 1:	1717 K STREET, NW		
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20036-5342		

PATENT REEL: 031579 FRAME: 0324

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ATTORNEY DOCKET NUMBER:	030284.06932/131086U2			
NAME OF SUBMITTER:	RACHELE WITTWER			
Signature:	/rachele wittwer/			
Date:	11/11/2013			
Total Attachments: 18	A 115			
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WHEREAS, WE,

1. **Peter GAAL,** 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, California,

2. **Mariam MOTAMED**, 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 Redwood City, California,

3. **Wanshi CHEN,** a citizen of The People's Republic of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, California,

4. **Alexei Y. GOROKHOV,** 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, California,

5. **Dominique F. BRESSANELLI**, a citizen of France, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Hessen, Germany,

6. Levent AYDIN, 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, 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 ENB PDCCH IMPLEMENTATION TO AVOID AMBIGUOUS DCI INFORMATION (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.

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

PATENT REEL: 031579 FRAME: 0327

PATENT QUALCOMM Bef. No. 131086U2 Page 3 of 3

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;

Done at a	san Diego.	on 10/16/2013	Peter GAAL
L. V. 1. V. 144	LOCATION	DATE	Peter GAAL
Done at _	LOCATION	DATE	Mariam MOTAMED
Done at_	* (A) A TRONT	on DATE	Wanshi CHEN
	LOLMINN		
Done at .	LOCATION ,	DATE	Alexei Y. GOROKHOV
Done at		on DATE	
	LOCATION	DATE	Dominique F. BRESSANELLI
Done at	`		×
	LOCATION	DATE	Levent AYDIN

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Done at		, on	
	LOCATION	, on DATE	Peter GAAL
Done at	Sank Clain	, on	MALLON MALLON
			Wanshi CHEN
Done at	LOCATION	, on DATE	Alexei Y. GOROKHOV
		, on	
Done at	LOCATION	, on	Levent AYDIN

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Done at		, on	Peter GAAL
	LOCATION	DATE	Peter GAAL
Dona at		an	
Done at	LOCATION	, on DATE	Mariam MOTAMED
	- Dica	ichilhair	
Done at	San Del	on	
	LOCATION	DATE	Wanshi CHEN
Done at	LOCATION	, on DATE	Alexei Y. GOROKHOV
Done at		. 01	
	LOCATION	, on DATE	Dominique F. BRESSANELLI
Done at		, on	Levent AYDIN
	LOCATION	DATE	Levent AYDIN

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Done at	, on	
LOCATIO	, on N DATE	Peter GAAL
Done at	, on	Mariam MOTAMED
LOCATIO	N DATE	Mariam MOTAMED
Done at	N DATE	
	N DATE N, on <u>10/07/2013</u> N DATE	Wanshi CHEN M. /A. Gorovuov Alexei Y. GOROKHOV
Done atLOCATIO	, on N DATE	Dominique F. BRESSANELLI
Done atLOCATIO	, on N DATE	Levent AYDIN

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PATENT QUALCOMM Ref. No. 131086U2 Page 3 of 3

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		, 00	
	LOCATION	DATE	Peter GAAL
Done at		, 08	Mariam MOTAMED
	LOCATION	DATE	Mariam MOTAMED
Done at		, on	Wanshi CHEN
	LOCATION	DATE	Wanshi CHEN
Done at		• 00	
	LOCATION	DATE	Alexei Y. GOROKHOV
Done at E	SCHBORN	ap 10-09-20-13	Dominique F. BRESSANELLI
	LOCATION	DATE	Dominique F. BRESSANELLI
Dona of			
rvaic ai	LOCATION	DATE	Levent AYDIN

PATENT REEL: 031579 FRAME: 0340

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Done at		, on	
	LOCATION	DATE	Peter GAAL
Done at		, on DATE	
	LOCATION	DATE	Mariam MOTAMED
Done at		, on	
		, on DATE	
			Alexei Y. GOROKHOV
Done at		, on DATE	
		DATE , on <u>10/25/13</u> DATE	Dominique F. BRESSANELLI
	LOCATION	DATE	Levent AYDIN

RECORDED: 11/11/2013