501784713 01/12/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Stefan Geirhofer	12/13/2011
Tingfang Ji	12/13/2011
Peter Gaal	12/13/2011
Aleksandar Damnjanovic	12/15/2011
Juan Montojo	12/14/2011
Tao Luo	12/13/2011
Wanshi Chen	12/13/2011
Kapil Bhattad	12/14/2011

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:	13349073

CORRESPONDENCE DATA

Fax Number: (213)629-7401 **Phone**: 2136297400

Email: dcipdocket@arentfox.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Lew Edward V. Macapagal
Address Line 1: 555 West Fifth St, 48th Floor
Address Line 4: Los Angeles, CALIFORNIA 90013

PATENT

REEL: 027525 FRAME: 0033

P \$40.00 1334907.

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ATTORNEY DOCKET NUMBER:	030284.02398	
NAME OF SUBMITTER:	Lew Edward V. Macapagal	
Total Attachments: 12 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201 source=111040_Assign-AsFiled-Jan-12-201	2#page2.tif 2#page3.tif 2#page4.tif 2#page5.tif 2#page6.tif 2#page7.tif 2#page8.tif	
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ASSIGNMENT

WHEREAS, WE,

- 1. Stefan Geirhofer, a citizen of Austria, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 2. Tingfang Ji, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 3. Peter Gaal, 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 San Diego, CA,
- 4. Aleksandar Damnjanovic, 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,
- 5. Juan Montojo, 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 San Diego, CA,
- 6. Tao Luo, a citizen of Canada, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA.
- 7. Wanshi Chen, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 8. Kapil Bhattad, 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,

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 COOPERATION AND OPERATION OF MACRO NODE AND REMOTE RADIO HEAD DEPLOYMENTS IN HETEROGENEOUS 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). 13/349,073 filed 1/12/2012 Docket No. 111040, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/442,129, filed February 11, 2011, Docket No. 111040P1, together with U.S. Provisional Application No(s). 61/442,690, filed February 14, 2011, Docket No. 111040P2, together with U.S. Provisional Application No(s). 61/442,087, filed February 11, 2011, Docket No. 111041P1, (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, 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 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 <u>Sax Disgo</u> LOCATION	, on	12/13/2011	
LOCATION		DATE	Stefan Geirhofer
Done at Son Dilys	_, on	12/15/2011	
Done at LOCATION			Tingfang Ji
Done atLOCATION			Peter Gaal Aleksandar Damnjanovic
Done at	_, on	DATE	Juan Montojo
Done at Son Pages LOCATION	_, on	12/3/206/	Tao Luo
7		12/13/2011 DATE	· Mr
Done at	on.		Kapil Bhattad
			AMAGIAL AFERSTULS.

ASSIGNMENT

WHEREAS, WE,

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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 COOPERATION AND OPERATION OF MACRO NODE AND REMOTE RADIO HEAD DEPLOYMENTS IN HETEROGENEOUS 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). 13/349,073 filed 1/12/2012 111040, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/442,129, filed February 11, 2011, Docket No. 111040P1, together with U.S. Provisional Application No(s). 61/442,690, filed February 14, 2011, Docket No. 111040P2, together with U.S. Provisional Application No(s). 61/442,087, filed February 11, 2011, Docket No. 111041P1, (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, 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 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	Stefan Geirhofer
Done at_		, on	Tris P. a Tr
	LOCATION	DATE	Tingfang Ji
Done at_		, on	
	LOCATION	DATE	Peter Gaal
Done at_	Sau Diego	, on <u>12/15/11</u> DATE	MANA A
	LOCATION'	DATE	(//Aleksandar Dannjanovic
Done at _		, on	
	LOCATION	DATE	Juan Montojo
Done at _		, on	Tan Luo
	LOCATION	DATE	Tao Luo
Done at		, on	\$\$\frac{1}{2} \cdot \cdo
··· ···	LOCATION	DATE	Wanshi Chen
Done at		, on	
	LOCATION	DATE	Kapil Bhattad

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.

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). $\frac{13/349,073}{6}$ filed $\frac{1/12/2012}{6}$, Docket No. 111040, and all provisional applications relating thereto, with U.S. Provisional Application No(s). 61/442,129, filed February 11, 2011, Docket No. 111040P1, together with U.S. Provisional Application No(s). 61/442,690, filed February 14, 2011, Docket No. 111040P2, together with U.S. Provisional Application No(s). 61/442,087, filed February 11, 2011, Docket No. 111041P1, (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, 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;

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PATENT

Docket No. 111040 Page 3 of 3

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	Stefan Geirhofer
Done at		
LOCATION	DATE	Tingfang Ji
Done at	, on	
LOCATION	DATE	Peter Gaal
Done at	, on	Aleksandar Damnjanovic
LOCATION	DATE	Aleksandar Damnjanovic
Done at Nurse m berg	_ on_12/14/11.	Juan Montojo
LOCATION V	DATE	Juan Montojo
Done at	, on	Tao Luo
LOCATION	DATE	Tao Luo
Done at	, on	Wough! Char
LOCATION	DATE	Wanshi Chen
Done at	_, on	YZ. H.Th.
LOCATION	DATE	Kapil Bhattad

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PATENT

Docket No. 111040 Page 3 of 3

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Done at	, or	
LOCATION	DATE	Stefan Geirhofer
Done at	, on	
LOCATION	DATE	Tingfang Ji
Done at	_, on	
LOCATION	DATE	Peter Gaal
Done at	, on	Aleksandar Damnjanovic
LOCATION	DATE	Aleksandar Damnjanovic
Done at	, on	Juan Montojo
LOCATION	DATE	Juan Montojo
Done at	, on	Tao Luo
LOCATION	DATE	Tao Luo
Done at	_, on	
LOCATION	DATE	Wanshi Chen
Done at <u>Bariga live</u> , <u>Jird</u> LOCATION	ia on 12/14/2011	Kapil Bhattad
LOCATION	DATE	Kanif Bhattad

PATENT REEL: 027525 FRAME: 0046

RECORDED: 01/12/2012