# 502916168 07/31/2014

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2962766

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
NAGA BHUSHAN	07/09/2014
DURGA PRASAD MALLADI	07/22/2014
YONGBIN WEI	07/22/2014
PETER GAAL	07/25/2014
TAO LUO	07/24/2014
TINGFANG JI	07/14/2014
GAVIN BERNARD HORN	07/08/2014
WANSHI CHEN	07/09/2014
ALEKSANDAR DAMNJANOVIC	07/18/2014

### **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:	14281620	

# **CORRESPONDENCE DATA**

**Fax Number:** (303)473-2720

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:** 303-473-2700

**Email:** sesoares@hollandhart.com

Correspondent Name: PAUL M. SCHRAMM
Address Line 1: PAUL M. SCHRAMM
HOLLAND & HART LLP

Address Line 2: P.O. BOX 11583

Address Line 4: SALT LAKE CITY, UTAH 84110

ATTORNEY DOCKET NUMBER:	PQ071.04 (81679.0309)
NAME OF SUBMITTER:	PAUL M. SCHRAMM

PAIENI

502916168 REEL: 033435 FRAME: 0469

**SIGNATURE:** /Paul M. Schramm/ **DATE SIGNED:** 07/31/2014 **Total Attachments: 36** source=132896U4 Assignment#page1.tif source=132896U4 Assignment#page2.tif source=132896U4 Assignment#page3.tif source=132896U4 Assignment#page4.tif source=132896U4 Assignment#page5.tif source=132896U4 Assignment#page6.tif source=132896U4\_Assignment#page7.tif source=132896U4 Assignment#page8.tif source=132896U4 Assignment#page9.tif source=132896U4 Assignment#page10.tif source=132896U4 Assignment#page11.tif source=132896U4 Assignment#page12.tif source=132896U4\_Assignment#page13.tif source=132896U4\_Assignment#page14.tif source=132896U4 Assignment#page15.tif source=132896U4 Assignment#page16.tif source=132896U4\_Assignment#page17.tif source=132896U4 Assignment#page18.tif source=132896U4 Assignment#page19.tif source=132896U4 Assignment#page20.tif source=132896U4 Assignment#page21.tif source=132896U4 Assignment#page22.tif source=132896U4 Assignment#page23.tif source=132896U4 Assignment#page24.tif source=132896U4 Assignment#page25.tif source=132896U4 Assignment#page26.tif source=132896U4 Assignment#page27.tif source=132896U4 Assignment#page28.tif source=132896U4 Assignment#page29.tif source=132896U4\_Assignment#page30.tif source=132896U4\_Assignment#page31.tif source=132896U4 Assignment#page32.tif source=132896U4 Assignment#page33.tif source=132896U4 Assignment#page34.tif source=132896U4\_Assignment#page35.tif

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# WHEREAS, WE,

- 1. Naga Bhushan, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 2. **Durga Prasad Malladi**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 3. Yongbin Wei, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 4. **Peter Gaal**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 5. Tao Luo, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 6. **Tingfang Ji**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California.
- 7. Gavin Bernard Horn, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of La Jolla, California,
- 8. Wanshi Chen, a citizen of the People's Republic of China, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 9. Aleksandar Damnjanovic, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of Del Mar, 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 WIRELESS FEEDBACK COMMUNICATIONS OVER UNLICENSED SPECTRUM (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). 14/281,620 filed May 19, 2014, Qualcomm Reference No. 132896U4, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/825,459, filed May 20, 2013, Qualcomm Reference No. 132896P1, (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

Page 3 of 4

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

Done at	SAN DIFE	Om	07-09-2014	Maga Bhushan
Done at	LOCATION	<u>_</u> 3y O.11 _	DATE	Naga Bhushan
Done at		_, on _	DATE	
	LOCATION		DATE	Durga Prasad Malladi
Done at _		_, on _	DATE	
	LOCATION		DATE	Yongbin Wei
Done at _	LOCATION	_, on _	······	was was in the same and the sam
	LOCATION		DATE	Peter Gaal
Done at _	LOCATION	_, on_	<u> </u>	
	LOCATION		DATE	Tao Luo
Done at _		_, on _	DATE	
	LOCATION		DATE	Tingfang Ji
Done at _	LOCATION	_, on _	DATE	Gavin Bernard Horn
	LOCATION		DATE	Gavin Dernard Horn
-				
Done at _	LOCATION	_, on _	DATE	Wanshi Chen
	LOCATION		DAIE	maisii Cici
<b>D</b>				
	LOCATION	_, on _	DATE	Aleksandar Damnjanovic

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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). 14/281,620 filed May 19, 2014, Qualcomm Reference No. 132896U4, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/825,459, filed May 20, 2013, Qualcomm Reference No. 132896P1, (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;

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

Done at		, on _		
	LOCATION	-, ,	DATE	Naga Bhushan
Done at <u>S</u>	LOCATION	, on _	7/22/14 DATE	Durga Prasad Malladi
Done at	LOCATION	, on	DATE	Yongbin Wei
Done at	LOCATION	, on _	DATE	Peter Gaal
Done at	LOCATION	, on	DATE	Tao Luo
Done at	LOCATION	, on _	DATE	Tingfang Ji
Done at	LOCATION	, on	DATE	Gavin Bernard Horn
Done at	LOCATION	, on _	DATE	Wanshi Chen
Done at	LOCATION	, on	DATE	Aleksandar Damnjanovic

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

Done at		_, on	
	LOCATION	DATE	Naga Bhushan
Done at	LOCATION	_, on	Durga Prasad Malladi
Done at	an Dier	, on 7/22/14 DATE	Yongbin Wei
Done at _	LOCATION	_, on	Peter Gaal
Done at	LOCATION	_, on	Tao Luo
Done at	LOCATION	_, on	Tingfang Ji
Done at	LOCATION	_, on	Gavin Bernard Horn
Done at _	LOCATION	_, on	Wanshi Chen
Done at	LOCATION	_, on	Aleksandar Damnjanovic

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Done at		, on	
	LOCATION	, on	Naga Bhushan
Done at		_, on	
	LOCATION	DATE	Durga Prasad Malladi
Done at		_, on	
	LOCATION	DATE	Yongbin Wei
Done at	San Dieja	on <u>07/25/14</u>	Peter Gaal
	LOCATION	DATE'	Peter Gaal
Done at	3	_, on	
	LOCATION	DATE	Tao Luo
Done at		_, on	
	LOCATION	DATE	Tingfang Ji
Done at		_, on	
	LOCATION	DATE	Gavin Bernard Horn
Done at		• on	
· · · · · · · · · · · · · · · ·	LOCATION	on	Wanshi Chen
Done at		, on	
	LOCATION	on	Aleksandar Damnjanovic

# WHEREAS, WE,

- 1. Naga Bhushan, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 2. **Durga Prasad Malladi,** a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 3. Yongbin Wei, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 4. **Peter Gaal**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 5. Tao Luo, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 6. **Tingfang Ji**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California.
- 7. Gavin Bernard Horn, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of La Jolla, California,
- 8. Wanshi Chen, a citizen of the People's Republic of China, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of San Diego, California,
- 9. Aleksandar Damnjanovic, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, and a resident of Del Mar, 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 WIRELESS FEEDBACK COMMUNICATIONS OVER UNLICENSED SPECTRUM (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). 14/281,620 filed May 19, 2014, Qualcomm Reference No. 132896U4, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/825,459, filed May 20, 2013, Qualcomm Reference No. 132896P1, (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

Page 3 of 4

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

Done at	, on	
Done atLOCATION	DATE	Naga Bhushan
Done atLOCATION	, on DATE	Durga Prasad Malladi
Done atLOCATION	, on	Yongbin Wei
Done atLOCATION	, on	Peter Gaal
Done at Location	on 07/20/2010	Tao Luo
Done atLOCATION	, on	Tingfang Ji
Done atLOCATION	, on	Gavin Bernard Horn
Done atLOCATION	, on	Wanshi Chen
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QUALCOMM Ref. No. 132896U4 Page 4 of 4

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

Done at	, on		
LOCATIO	ON	DATE	Naga Bhushan
Done atLOCATIO	, on	DATE	Durga Prasad Malladi
Done atLOCATIO	, on	DATE	Yongbin Wei
Done atLOCATIO	, on	DATE	Peter Gaal
Done atLOCATIO	, on	DATE	Tao Luo
Done at <u>Sc (7</u> LOCATIO	1233, on 7/	DATE DATE	Tingfang Ji
Done atLOCATION	, on	DATE	Gavin Bernard Horn
Done atLOCATIO	, on	DATE	Wanshi Chen
Done at	, on	DATE	Aleksandar Damnjanovic

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Done atLOCATION	, on DATE	Tingfang Ji
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Done at Son Vieyo LOCATION	, on	Gavin Bernard Horn
D		
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Done at	. On	
Done atLOCATION	DATE	Aleksandar Damnjanovic

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	LOCATION		DATE	Naga Bhushan
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	LOCATION		DATE	Durga Prasad Malladi
Done at _	LOCATION	on_		W7. 3 5 WY7.5
	LOCATION		DATE	Yongbin Wei
Done at _	LOCATION	on_	DATE	Peter Gaal
	DOCATION		DAIL	Teter Guar
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	LOCATION		DATE	Tao Dao
Done at _	LOCATION	on_	DATE	Tingfang Ji
Done at _	LOCATION	on_	DATE	Gavin Bernard Horn
<	Om Diesa		7/9/2016	
Done at $\leq$	LOCATION	on _	7/9/2014 DATE	Wanshi Chen
Done at		on.		
	LOCATION	, ~	DATE	Aleksandar Damnjanovic

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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). 14/281,620 filed May 19, 2014, Qualcomm Reference No. 132896U4, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/825,459, filed May 20, 2013, Qualcomm Reference No. 132896P1, (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

Page 3 of 4

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

Done at	, on	
Done at LOCATION	DATE	Naga Bhushan
Done atLOCATION	, on	
LOCATION	DATE	Durga Prasad Malladi
Done at	, on	
LOCATION	DATE	Yongbin Wei
Done at	, on	
LOCATION	DATE	Peter Gaal
Done at	, on	
LOCATION	DATE	Tao Luo
Done at	, on	
LOCATION	DATE	Tingfang Ji
Done atLOCATION	, on	
LOCATION	DATE	Gavin Bernard Horn
Done atLOCATION	, on	Wanshi Chen
LOCATION	DATE	wanshi Chen
Done at Son Mego LOCATION	_, on <u>7/18/14</u>	Aleksandar Dannjanovic
LOCATION	DATE	Asieksandar Dannijanovic

**PATENT REEL: 033435 FRAME: 0506** 

RECORDED: 07/31/2014