

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5059858

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BHUSHAN SHANTI ASURI	07/11/2018
KRISHNASWAMY THIAGARAJAN	05/25/2018
ASHOK SWAMINATHAN	07/16/2018
SHAHIN MEHDIZAD TALEIE	06/27/2018
YEN-WEI CHANG	05/31/2018
VINOD PANIKKATH	07/03/2018
SAMEER VASANTLAL VORA	06/29/2018
AYUSH MITTAL	05/25/2018
TONMOY BISWAS	05/25/2018
SY-CHYUAN HWU	06/27/2018
ZHILONG TANG	07/17/2018
IBRAHIM CHAMAS	06/27/2018
PING WING LAI	06/07/2018
BEHNAM SEDIGHI	06/27/2018
DONGWON SEO	06/27/2018
NITZ SAPUTRA	05/25/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM INCORPORATED
<b>Street Address:</b>	5775 MOREHOUSE DRIVE
<b>City:</b>	SAN DIEGO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121-1714
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15962865
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(310)201-5219
<i>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.</i>	

PATENT

**Phone:** 310.277.7200  
**Email:** Qualcomm-USPTO@seyfarth.com  
**Correspondent Name:** SEYFARTH SHAW LLP  
**Address Line 1:** 2029 CENTURY PARK EAST, SUITE 3500  
**Address Line 4:** LOS ANGELES, CALIFORNIA 90067

<b>ATTORNEY DOCKET NUMBER:</b>	173997U2
<b>NAME OF SUBMITTER:</b>	ALVIN FASHU-KANU
<b>SIGNATURE:</b>	/Alvin Fashu-Kanu/
<b>DATE SIGNED:</b>	07/20/2018

**Total Attachments: 17**

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ASSIGNMENT

WHEREAS, WE,

1. Bhushan Shanti ASURI, 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. Krishnaswamy THIAGARAJAN a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Bangalore, India,
3. Ashok SWAMINATHAN, a citizen of Canada, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Cardiff, California,
4. Shahin MEHDIZAD TALEIE, 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. Yen-Wei CHANG, a citizen of Taiwan, having a mailing address located at 472 Kahlo Street, Mountain View, California 94041, and a resident of Mountain View, California,
6. Vinod PANIKKATH, 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. Sameer Vasantlal VORA, 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,
8. Ayush MITTAL, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Bangalore, India,
9. Tonmoy BISWAS, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Bangalore, India,
10. Sy-Chyuan HWU, a citizen of Taiwan, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of San Diego, California,
11. Zhilong TANG, 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 Irvine, California,
12. Ibrahim CHAMAS, a citizen of Lebanon, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, and a resident of Carlsbad, California,
13. Ping Wing LAI, a citizen of Hong Kong, having a mailing address located at 8804 La Camesa Street, San Diego, CA 92129, and a resident of San Diego, California,

14. **Behnam SEDIGHI**, a citizen of **Iran**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714**, and a resident of **La Jolla, California**,

15. **Dongwon SEO**, 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**,

16. **Nitz SAPUTRA**, a citizen of **Indonesia**, having a mailing address located at **5775 Morehouse Drive, San Diego, California 92121-1714**, and a resident of **San Bruno, 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 **COMMUNICATION CIRCUIT INCLUDING A TRANSMITTER** (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). **15/962,865**, filed **April 25, 2018**, Qualcomm Reference No. **173997U2**, and all provisional applications relating thereto, together with U.S. Provisional Application No. **62/642,567**, filed **March 13, 2018**, Qualcomm Reference No. **173997P1**, (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 covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at San Diego, on 07/11/2018  
LOCATION DATE

Bhushan Shanti ASURI  
Bhushan Shanti ASURI

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

Krishnaswamy THIAGARAJAN  
Krishnaswamy THIAGARAJAN

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

Ashok SWAMINATHAN  
Ashok SWAMINATHAN


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

Done at _____, on _____ LOCATION                    DATE	_____ Bhushan Shanti ASURI
Done at <u>BANGALORE</u> , on <u>25<sup>th</sup> MAY 2018</u> LOCATION                    DATE	_____  Krishnapwamy THIAGARAJAN
Done at _____, on _____ LOCATION                    DATE	_____ Ashok SWAMINATHAN

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

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

\_\_\_\_\_  
Bhushan Shanti ASURI

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

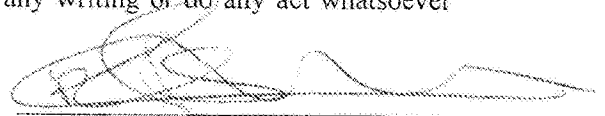
\_\_\_\_\_  
Krishnaswamy THIAGARAJAN

Done at San Diego, on 7/16/2018  
LOCATION DATE

  
\_\_\_\_\_  
Ashok SWAMINATHAN

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

Done at San Diego, CA, on 6-27-18  
LOCATION DATE

  
Shahin MEHDIZAD TALEIE

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

Yen-Wei CHANG

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

Vinod PANIKKATH

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

Sameer Vasantlal VORA

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

Ayush MITTAL

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

Tonmoy BISWAS

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

Sy-Chyuan HWU

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

Zhilong TANG

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

Ibrahim CHAMAS

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

Ping Wing LAI

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

Behnam SEDIGHI

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

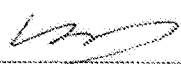
Dongwon SEO

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

Nitz SAPUTRA



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	_____ Shahin MEHDIZAD TALEIE
Done at <u>Cupertino</u> , on <u>05/31/2018</u> LOCATION DATE	 Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	_____ Vinod PANIKKATH
Done at _____, on _____ LOCATION DATE	_____ Sameer Vasantlal VORA
Done at _____, on _____ LOCATION DATE	_____ Ayush MITTAL
Done at _____, on _____ LOCATION DATE	_____ Tonmoy BISWAS
Done at _____, on _____ LOCATION DATE	_____ Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	_____ Zhilong TANG
Done at _____, on _____ LOCATION DATE	_____ Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	_____ Ping Wing LAI
Done at _____, on _____ LOCATION DATE	_____ Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	_____ Dongwon SEO
Done at _____, on _____ LOCATION DATE	_____ Nitz SAPUTRA

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

Shahin MEHDIZAD TALEIE

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

Yen-Wei CHANG

Done at SAN DIEGO, on 7/3/2018  
LOCATION DATE

Vinod PANIKKATH

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

Sameer Vasantlal VORA

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

Ayush MITTAL

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

Tonmoy BISWAS

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

Sy-Chyuan HWU

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

Zhilong TANG

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

Ibrahim CHAMAS

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

Ping Wing LAI

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

Behnam SEDIGHI


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

Dongwon SEO

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

Nitz SAPUTRA

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	_____ Shahin MEHDIZAD TALEIE
Done at _____, on _____ LOCATION DATE	_____ Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	_____ Vinod PANIKKATH
Done at <u>San Diego</u> , on <u>06/29/18</u> LOCATION DATE	 _____ Sameer Vasantlal VORA
Done at _____, on _____ LOCATION DATE	_____ Ayush MITTAL
Done at _____, on _____ LOCATION DATE	_____ Tonmoy BISWAS
Done at _____, on _____ LOCATION DATE	_____ Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	_____ Zhilong TANG
Done at _____, on _____ LOCATION DATE	_____ Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	_____ Ping Wing LAI
Done at _____, on _____ LOCATION DATE	_____ Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	_____ Dongwon SEO
Done at _____, on _____ LOCATION DATE	_____ Nitz SAPUTRA

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	Shahin MEHDIZAD TALEIE
Done at _____, on _____ LOCATION DATE	Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	Vinod PANIKKATH
Done at _____, on _____ LOCATION DATE	Sameer Vasantlal VORA
Done at <u>Bangalore</u> , on <u>25 May 2018</u> LOCATION DATE	 Ayush MITTAL
Done at <u>Bangalore.</u> , on <u>25th May, 2018</u> LOCATION DATE	 Tonmoy BISWAS
Done at _____, on _____ LOCATION DATE	Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	Zhilong TANG
Done at _____, on _____ LOCATION DATE	Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	Ping Wing LAI
Done at _____, on _____ LOCATION DATE	Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	Dongwon SEO
Done at _____, on _____ LOCATION DATE	Nitz SAPUTRA

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	Shahin MEHDIZAD TALEIE
Done at _____, on _____ LOCATION DATE	Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	Vinod PANIKKATH
Done at _____, on _____ LOCATION DATE	Sameer Vasantlal VORA
Done at _____, on _____ LOCATION DATE	Ayush MITTAL
Done at _____, on _____ LOCATION DATE	Tonmoy BISWAS
Done at <u>San Diego</u> , on <u>6/27/18</u> LOCATION DATE	<u>Sy-Chyuan Hwu</u> Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	Zhilong TANG
Done at _____, on _____ LOCATION DATE	Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	Ping Wing LAI
Done at _____, on _____ LOCATION DATE	Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	Dongwon SEO
Done at _____, on _____ LOCATION DATE	Nitz SAPUTRA

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 Shahin MEHDIZAD TALEBI

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Yen-Wei CHANG

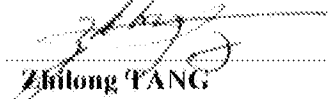
Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Vinod PANIKKATH

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Sameer Vasantlal VORA

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

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Sy-Chyuan HWU

Done at IRVINE, on 7/17/2018  
LOCATION DATE   
Zhihong TANG

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ping Wing LAI

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

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

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

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	Shahin MEHDIZAD TALEIE
Done at _____, on _____ LOCATION DATE	Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	Vinod PANIKKATH
Done at _____, on _____ LOCATION DATE	Sameer Vasantlal VORA
Done at _____, on _____ LOCATION DATE	Ayush MITTAL
Done at _____, on _____ LOCATION DATE	Tonmoy BISWAS
Done at _____, on _____ LOCATION DATE	Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	Zhilong TANG
Done at <u>5745 Pacific Center Blvd, San Diego, 92121</u> , on <u>06/27/2018</u> LOCATION DATE	 Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	Ping Wing LAI
Done at _____, on _____ LOCATION DATE	Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	Dongwon SEO
Done at _____, on _____ LOCATION DATE	Nitz SAPUTRA

## PATENT

QUALCOMM Ref. No. 173997U2

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 \_\_\_\_\_  
LOCATION DATE

Shahin MEHDIZAD TALEIE

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

Yen-Wei CHANG

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

Vinod PANIKKATH

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

Sameer Vasantlal VORA

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

Ayush MITTAL

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

Tonmoy BISWAS

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

Sy-Chyuan HWU

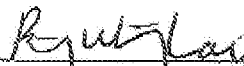
Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

Zhilong TANG

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

Ibrahim CHAMAS

Done at San Diego, CA, on 6/7/2018  
LOCATION DATE

  
Ping Wing LAI

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

Behnam SEDIGHI

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

Dongwon SEO

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

Nitz SAFUTRA

PATENT

REEL: 046411 FRAME: 0869



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	Shahin MEHDIZAD TALEIE
Done at _____, on _____ LOCATION DATE	Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	Vinod PANIKKATH
Done at _____, on _____ LOCATION DATE	Sameer Vasantlal VORA
Done at _____, on _____ LOCATION DATE	Ayush MITTAL
Done at _____, on _____ LOCATION DATE	Tonmoy BISWAS
Done at _____, on _____ LOCATION DATE	Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	Zhilong TANG
Done at _____, on _____ LOCATION DATE	Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	Ping Wing LAI
Done at <u>San Diego</u> , on <u>6/27/2018</u> LOCATION DATE	 Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	Dongwon SEO
Done at _____, on _____ LOCATION DATE	Nitz SAPUTRA

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 Shahin MEHDIZAD TALEIE

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Yen-Wei CHANG

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Sameer Vasantlal VORA

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

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


Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Sy-Chyuan HWU

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

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ping Wing LAI

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

Done at San Diego, CA, on 6/27/18  
LOCATION DATE   
Dongwen SEO

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

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	Shahin MEHDIZAD TALEIE
Done at _____, on _____ LOCATION DATE	Yen-Wei CHANG
Done at _____, on _____ LOCATION DATE	Vinod PANIKKATH
Done at _____, on _____ LOCATION DATE	Sameer Vasantlal VORA
Done at _____, on _____ LOCATION DATE	Ayush MITTAL
Done at _____, on _____ LOCATION DATE	Tonmoy BISWAS
Done at _____, on _____ LOCATION DATE	Sy-Chyuan HWU
Done at _____, on _____ LOCATION DATE	Zhilong TANG
Done at _____, on _____ LOCATION DATE	Ibrahim CHAMAS
Done at _____, on _____ LOCATION DATE	Ping Wing LAI
Done at _____, on _____ LOCATION DATE	Behnam SEDIGHI
Done at _____, on _____ LOCATION DATE	Dongwon SEO
Done at <u>Santa Clara</u> , on <u>5/25/2018</u> LOCATION DATE	 Nitz SAPUTRA