505013110 07/20/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5059858

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
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

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:	15962865

CORRESPONDENCE DATA

Fax Number: (310)201-5219

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: 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

ATTORNEY DOCKET NUMBER: 173997U2

NAME OF SUBMITTER: ALVIN FASHU-KANU

SIGNATURE: /Alvin Fashu-Kanu/

DATE SIGNED: 07/20/2018

Total Attachments: 17

source=173997U2_Assignment_AsFiled_20July2018#page1.tif

source=173997U2_Assignment_AsFiled_20July2018#page2.tif

source=173997U2_Assignment_AsFiled_20July2018#page3.tif

source=173997U2 Assignment AsFiled 20July2018#page4.tif

source=173997U2 Assignment AsFiled 20July2018#page5.tif

source=173997U2 Assignment AsFiled 20July2018#page6.tif

source=173997U2 Assignment AsFiled 20July2018#page7.tif

source=173997U2 Assignment AsFiled 20July2018#page8.tif

source=173997U2_Assignment_AsFiled_20July2018#page9.tif

source=173997U2 Assignment AsFiled 20July2018#page10.tif

source=173997U2 Assignment AsFiled 20July2018#page11.tif

source=173997U2_Assignment_AsFiled_20July2018#page12.tif

source=173997U2_Assignment_AsFiled_20July2018#page13.tif

source=173997U2 Assignment AsFiled 20July2018#page14.tif

source=173997U2 Assignment AsFiled 20July2018#page15.tif

source=173997U2_Assignment_AsFiled_20July2018#page16.tif

source=173997U2 Assignment AsFiled 20July2018#page17.tif

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 Vasantial 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_	The state of the s	on <u>07 11/2018</u>	and & Burnelian
	LOCATION	DATE	Bhushan Shanti ASURI
Done at _		on	
	LOCATION	DATE	Krishnaswamy THIAGARAJAN
Done at _		on	
	LOCATION	DATE	Ashok SWAMINATHAN

PATENT QUALCOMM Ref. No. 173997U2 Page 3 of 4

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	5	on	
	LOCATION	DATE	Bhushan Shanti ASURI
Done at	BANGALORE,	on 25 th May 2018 Date	Krishna wamy THIAGARAAN
Done at		oń	
	LOCATION	DATE	Ashok SWAMINATHAN

PATENT QUALCOMM Ref. No. 173997U2 Page 3 of 4

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	Ashok SWAMINATHAN

conflicti	ng with these pr	esents.		execute any writing or do any act whatsoever
Done at	SON DIMBER	CA Lon	<u> </u>	8 (22)
	LOCATION		DATE	Shahin MEHDIZAD TALEIE
Done at		, on	DATE	
	LOCATION		DATE	Yen-Wei CHANG
Done at		, on		
	LOCATION		DATE	Vinod PANIKKATH
Done at		on_	DATE	
	LOCATION		DATE	Sameer Vasantlal VORA
Done at _		on_	DATE.	
	LOCATION		DATE.	Ayush MITTAL
Done at	LOCATION	, on	·	
	LOCATION		DATE	Tonmoy BISWAS
Done at_		, on		
	LOCATION		DATE	Sy-Chyuan HWU
Done at		on		
	LOCATION	political Contract	DATE	Zhilong TANG
Done at _	LOCATION	_, on	a ang kapa dalam kandalan kapa kapa kapa kapa kapa kapa kapa ka	
	LOCATION		DATE	Ibrahim CHAMAS
Done at _	LOCATION	_, on		
	LOCATION		DATE	Ping Wing LAI
Done at_	LOCATION	_, on		
				Behnam SEDIGHI
Done at	LOCATION	_, on	DOS STATES OF THE STATE OF THE STATES OF THE	
				Dongwon SEO
Done at	LOCATION	, on	 	
	LOCATION		DATE	Nitz SAPUTRA

Done at		, on		
ioi	LOCATION	in medial significance and	DATE	Shahin MEHDIZAD TALEIE
Done at	Cuzertino LOCATION	, on	05/31/2018	Ven-Wei CHANG
	LOCATION		DATE	Yen-Wei CHANG
Done at	LOCATION	, on		
	LOCATION		DATE	Vinod PANIKKATH
Done at	LOCATION	s on	in the state of th	Sameer Vasantlal VORA
	LOCATION		DAIL.	Sameer Vasantiai VORA
Done at _	LOCATION	, on	DATE	Ayush MITTAL
				12 3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Done at _	LOCATION	, on	DATE	Tonmoy BISWAS
Dana at				
Done at _	LOCATION		DATE	Sy-Chyuan HWU
Done at		, on		
-	LOCATION	ere ere et ere et en ere ere ere ere ere ere ere ere ere	DATE	Zhilong TANG
Done at	LOCATION	, on	MENONE SERVING A HAN MENON HAN ARRANGAN AND AND AND AND AND AND AND AND AND A	
	LOCATION		DATE	Ibrahim CHAMAS
Done at _	LOCATION	, on	tikaninkaninkaninkaninganinganin	Ping Wing LAI
	LOCATION		DATE	Fing Wing LAI
Done at_	LOCATION		DATE	Behnam SEDIGH!
				APPOINGER APRICATION A
Done at	LOCATION	, on	DATE	Dongwon SEO
Danwas				
rome at "	LOCATION	, on	DATE	Nitz SAPUTRA

Done at		n	
	LOCATION , O	DATE	Shahin MEMDIZAD TALEIE
Done at	LOCATION , OI	1	
			Yen-Wei CHANG
Done at	LOCATION, or	n <u>7/3/201</u> 8 DATÉ	Vinod PANIKKATH
Done at	on		MINIMALIA
	LOCATION , on	DATE	Sameer Vasantial VORA
Done at _	LOCATION , on		
			Ayush MITTAL
Done at _	LOCATION, on	DATE	Tonmoy BISWAS
			Y OUTHING THE AN WO
	LOCATION , on	DATE	Sy-Chyuan HWU
Done at _	LOCATION , on		
			Zhilong TANG
Done at	LOCATION , on	DATE	Ibrahim CHAMAS
			TOT WISHING CITATIVES
. 	LOCATION , on	DATE	Ping Wing LAI
Done at	, on_		
	LOCATION	DATE	Behnam SEDIGHI
Done at	LOCATION on _	DATE	Dongwon SEO
			Out nongive
and the second second	, on _	DATE	Nitz SAPUTRA

Done at		, on		
-	LOCATION	****	DATE	Shahin MEHDIZAD TALEIE
Done at_	LOCATION	_, on	DATE	Yen-Wei CHANG
Done at _	LOCATION	_, on	DATE	Vinod PANIKKATH
Done at _	San Diego], on <u>(†) 6</u>	29/18	2V299
	200121014		Mills.	Sameer Vasantial VORA
	LOCATION			Ayush MITTAL
Done at _	LOCATION	_, on	DATE	Tonmoy BISWAS
Done at _	LOCATION	_, on	DATE	Sy-Chyuan HWU
Done at _	LOCATION	_, on	DATE	Zhilong TANG
	LOCATION			Suited States
				ibrahim CHAMAS
Done at	LOCATION	, on	DATE	Ping Wing LAI
Done at	LOCATION	, on	DATE	Behnam SEDIGHI
Done at_	LOCATION	, on	DATE	Dongwon SEO
	LOCATION			
	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	LOCATION	, on		
-	LOCATION		DATE	Shahin MEHDIZAD TALEIE
Done at	LOCATION	_, on _	DATE	Yen-Wei CHANG
	LOCATION	ت جن	DATE	Vinod PANIKKATH
Done at	LOCATION	on _	DATE	Sameer Vasantial VORA
Done at	Baugalone	on_	25 May 2018	Ayush MITTAL
	20.000 20.		employed and to come	Yourney Biswan
Done at	LOCATION	, on	25th May, 2018 DATE \$	Tonmoy BISWAS
Done at	LOCATION	_, on _	DATE	Sy-Chyuan HWU
				by Calyana 1277 C
Done at	LOCATION	., on .	DATE	Zhilong TANG
Done at	LOCATION	_, on	DATE	Ibrahim CHAMAS
DOIL GE	LOCATION		DATE	Ping Wing LAI
Done at	LOCATION	_, on	DATE	Behnam SEDIGHI
Done at	LOCATION	_, on		
	LOCATION		DATE	Dongwon SEO
Done at	LOCATION	_, on	DATE	Nitz SAPUTRA

Done at	, on	
LOCATION	, on	Shahin MEHDIZAD TALEIE
Done at LOCATION	, on	Yen-Wei CHANG
Done atLOCATION	DATE	Vinod PANIKKATH
Done atLOCATION	OATE	Sameer Vasantial VORA
Done at	, on	
Done atLOCATION	DATE	Ayush MITTAL
Done atLOCATION	_, on	Tonmoy BISWAS
Done at San Vicao LOCATION	on 6/27/18 DATE	Sv-Chynan XIVU
Done atLOCATION	, on	
		Zhilong TANG
Done at LOCATION	DATE	Ibrahim CHAMAS
Done atLOCATION	, on	Ping Wing LAI
		A AND AND SHAPE
Done at LOCATION	DATE	Behnam SEDIGHI
Done atLOCATION	, on	Dongwon SEO
		<u>.</u>
Done atLOCATION	DATE	Nitz SAPUTRA

Done at		, on		
	LOCATION		DATE	Shahin MEHDIZAD TALEIE
Done at	LOCATION	, on	***************************************	
	LOCATION		DATE	Yen-Wei CHANG
Done at _	LOCATION	_, on		
	LOCATION		DATE	Vinod PANIKKATH
Done at	LOCATION	, on	***************************************	
	LOCATION		DATE	Sameer Vasantlal VORA
Done at _	LOCATION	, on		Ayush MITTAL
	LOCATION		DATE	Ayush MITTAL
Done at _	LOCATION	, on		Toumoy BISWAS
	LOCATION		DATE	Toumoy BISWAS
Done at _	LOCATION	_, on		
				Sy-Chyuan HWU
Done at _	JRVINE	, on	7/17/2018	Zinlong TANG
	LOCATION		DATÈ	Zhilong TANG
Done at _	LOCATION	_, on		
	LOCATION		DATE	Ibrahim CHAMAS
Done at _	LOCATION	, on		
	LOCATION		DATE	Ping Wing LAI
Done at _		, on		
	LOCATION		DATE	Behnam SEDIGHI
Done at _	LOCATION	₅ on		
	LOCATION		DATE	Dongwon SEO
Done at _	> 2021 COMONA	no	Y: > 6(Y):	NOS SO S NOS DENEN S
	LOCATION		DATE	Nitz SAPUTRA

Done at	on	
Done at LOCATION	DATE	Shabin MEHDIZAD TALEIE
Done atLOCATION	_, on	Yen-Wei CHANG
Done at	on	Vinod PANIKKATH
Done at	, on	Sameer Vasantial VORA
Done at LOCATION		
		Ayush MITTAL
Done at LOCATION	DATE	Tonmoy BISWAS
Done atLOCATION	on	Sy-Chyuan HWU
Done atLOCATION	on	Zhilong TANG
5745 Pacific Cente. Done at <u>Blvd, SenDiese, OUL</u> LOCATION	(1, on <u>06/27/2017</u> DATE	Typasiin CHAMAS
Done atLOCATION		Ping Wing LAI
Done atLOCATION		twik and res
		Behnam SEDIGHI
Done atLOCATION	DATE	Dongwon SEO
Done at LOCATION	, on	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.

concat	, OH	
LOCATION	DATE	Shahin MEHDIZAD TALEIE
Done at	on	
LOCATION	DATE	Yen-Wei CHANG
Done atLOCATION	_, on	
LOCATION	DATE	Vinod PANIKKATH
Done atLOCATION	, or	
		Sameer Vasantial VORA
Done atLOCATION	, on	A
		Ayush MITTAL
Done atLOCATION	OR	Tonmoy BISWAS
		Tabliffa Abelo an Lon
Done atLOCATION	, OB DATE	Sy-Chynan HWU
		* *
Done at LOCATION	, on	Zhilong TANG
Done at	, on	,
Done atLOCATION	DATE	Ibrahim CHAMAS
Done at Son Diego (A	on 6/2/248	Rullar Pine Wine LAN
LOCATION	DATE	Ping Wing LAV
Done at LOCATION	_, on	
LOCATION	DATE	Behnam SEDIGHI
Done at		
LOCATION	DATE	Dongwon SEO
Done atLOCATION	_, on	
LOCATION	DATE	Nitz SAPUTRA

Done at		, on		
	LOCATION		DATE	Shahin MEHDIZAD TALEIE
Done at _	LOCATION	_, on	DATE	Yen-Wei CHANG
				ren-wei Chainc
Done at _	LOCATION	_, on	DATE	Vinod PANIKKATH
Done at	LOCATION	_, on		
	LOCATION		DATE	Sameer Vasantlal VORA
Done at _	LOCATION	_, on	DATE	Ayush MITTAL
Done at _	LOCATION	_, on		
				Tonmoy BISWAS
Done at _	LOCATION	_, on	DATE	Sy-Chyuan HWU
Done at	LOCATION	, on	DATE	Zhilong TANG
Dana at		27		Summing 1/3/1/2
Done at	LOCATION	, O11	DATE	Ibrahim CHAMAS
Done at	LOCATION	_, on	DATE	Ping Wing LAF
			/ /	Samueld.
- And	LOCATION		DATE	Behnam SEDICIII
Done at	LOCATION	_, on	DATE	Dongwon SEO
				o
NOISE (II)	LOCATION		DATE	Nitz SAPUTRA

Done at . on		
LOCATION , on	DATE	Shahin MEHDIZAD TALEIE
Done at, on	DATE	Yen-Wei CHANG
Done at, on		. what .
LOCATION	DATE	Vinod PANIKKATH
Done at, on	DATE	Sameer Vasantial VORA
Done at, on		
		Ayush MITTAL
Done at, on	DATE	Tonmoy BISWAS
Done at, on	DATE	Sy-Chyuan HWU
		ay and an in a
Done at, on	DATE	Zhilong TANG
Done at, on	DATE	Ibrahim CHAMAS
Done at, on		***
		Ping Wing LAI
Done at, on		Behnam SEDIGHI
Done at San Digu, CAon_	6/27/18	Dongwood SEO
	Direction	ronkaan ses
Done at, on	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	, on DATE	Shahin MEHDIZAD TALEIE
Done at		, on	
	LOCATION	on	Yes-Wei CHANG
Done at		, on	
	LOCATION	DATE	Vinod PANIKKATW
Done at		_, on	
	LOCATION	DATE	Sameer Vasantial VORA
Done at		, on DATE	Ayush MITTAL
	LOCATION	DATE	Ayush MITTAL
Done at		on	
	LOCATION	DATE	Tonmoy BISWAS
Done at		on	
	LOCATION	DATE	Sy-Chyuan HWU
Done at		on	
	LOCATION	DATE	Zbilong 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	Sada Clara	on 5/25/2018.	
	LOCATION	DATE	Nitz SAPUTRA

PATENT REEL: 046411 FRAME: 0872

RECORDED: 07/20/2018