PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5487409

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
NAN ZHANG	03/29/2019
ROBERTO RIMINI	03/29/2019
XINJIE YANG	04/17/2019
VIJAY VARADARAJAN	03/28/2019
BO WANG	04/19/2019

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:	16234717		

CORRESPONDENCE DATA

Fax Number:

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: 7036217140

Email: meo.docket@mg-ip.com

Correspondent Name: MUNCY, GEISSLER, OLDS & LOWE, P.C./QC

Address Line 1: 4000 LEGATO ROAD, SUITE 310

Address Line 4: FAIRFAX, VIRGINIA 22033

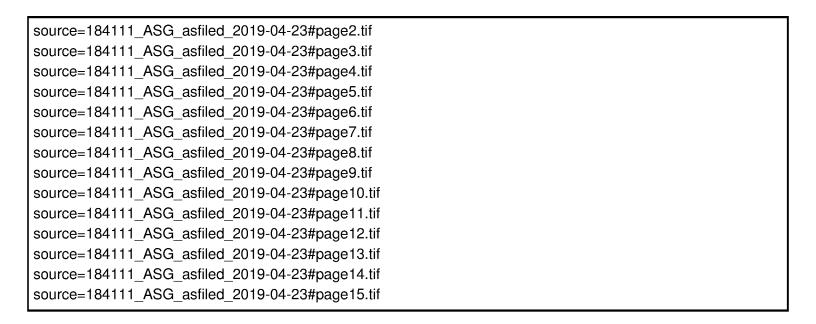
ATTORNEY DOCKET NUMBER:	QC184111
NAME OF SUBMITTER:	RENEE ELDER
SIGNATURE:	/RENEE ELDER/
DATE SIGNED:	04/23/2019

Total Attachments: 15

source=184111_ASG_asfiled_2019-04-23#page1.tif

PATENT REEL: 048968 FRAME: 0572

505440608



WHEREAS, WE,

- 1. Nan ZHANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714.
- Roberto RIMINI, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714.
- 3. Xinjie YANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,
- 4. Vijay VARADARAJAN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,
- 5. Bo WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714.

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 MITIGATING MUTUAL COUPLING LEAKAGE IN SMALL FORM FACTOR DEVICES (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. 16/234,717 filed **December 28, 2018**, Qualcomm Reference No. 184111, and all provisional applications relating thereto, (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,

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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;

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;

Done at	San Nien, on	03/29/2019 DATE	
	LOCATION	DATE	Nan ZHANG
Done at	, on		
	LOCATION , on	DATE	Roberto RIMINI
Done at	, on		
	LOCATION	DATE	Xinjie YANG
Done at	, on	DATE	
			Vijay VARADARAJAN
Done at _	LOCATION , on		
	LOCATION	DATE	Ro WANG

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Done at		_, on	
•	LOCATION	DATE	Nan ZHANG
Done at _.	SANDIE 60 LOCATION	_, on <u>03-24-17</u> DATE	Roberto RIMINI
Done at	LOCATION	_, on	Xinjie YANG
Done at	LOCATION	on	Vijay VARADARAJAN
Done at	LOCATION		Bo WANG

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Done at	, on	
LOCAT		
Done atLOCAT	on	TE Roberto RIMINI
Done at <u>San 0.</u> LOCAT	ego, on 4171	TOIG Kinjie YANG
Done atLOCAT	on DA	TE Vijay VARADARAJAN
Done at	, on	TE Bo WANG

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Done at		, on _		
	LOCATION		DATE	Nan ZHANG
Done at		, on		
·	LOCATION		DATE	Roberto RIMINI
Done at	<u> </u>	, on _		Xinjie YANG
				11111
Done at	LOCATION	, on	3/28/2019 DATE	Vijay VARADARAJAN
Done at				
	LOCATION		DATE	Bo WANG

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Done at		, on		
<i>.</i> -	LOCATION		DATE	Nan ZHANG
Done at		, on		
-	LOCATION		DATE	Roberto RIMINI
Done at		Off		
Done ac	LOCATION	, 011	DATE	Xinjie YANG
**				
Done at	LOCATION	, on _	DATE	Vijay VARADARAJAN
	LOCATION		DAIL	Vijay Vizetillizati v
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70.	LOCATION		4/10/2019	
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	LOCATION		DATE	Bo WANG

PATENT REEL: 048968 FRAME: 0588

RECORDED: 04/23/2019