

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6741896

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the COVER SHEET previously recorded on Reel 056012 Frame 0103. Assignor(s) hereby confirms the THE THIRD INVENTOR KEITH ALAN BOWMAN DATED THE ASSIGNMENT 07/22/2020 NOT 07/20/2020.

**CONVEYING PARTY DATA**

Name	Execution Date
BHARAT BHARAT RANGARAJAN	08/12/2020
DIPTI RANJAN PAL	12/16/2020
KEITH ALAN BOWMAN	07/22/2020
SRINIVAS TURAGA	09/10/2020
ATEESH DEEPANKAR DE	08/20/2020
SHIH-HSIN JASON HU	07/27/2020
CHANDAN AGARWALLA	04/18/2021

**RECEIVING PARTY DATA**

<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

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16874538

**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

<b>ATTORNEY DOCKET NUMBER:</b>	200941
<b>NAME OF SUBMITTER:</b>	JOSEPH LUTZ

<b>SIGNATURE:</b>	/Joseph Lutz/
<b>DATE SIGNED:</b>	06/02/2021
<b>Total Attachments: 10</b> source=200941_Assignment_AsFiled_22April2021#page1.tif source=200941_Assignment_AsFiled_22April2021#page2.tif source=200941_Assignment_AsFiled_22April2021#page3.tif source=200941_Assignment_AsFiled_22April2021#page4.tif source=200941_Assignment_AsFiled_22April2021#page5.tif source=200941_Assignment_AsFiled_22April2021#page6.tif source=200941_Assignment_AsFiled_22April2021#page7.tif source=200941_Assignment_AsFiled_22April2021#page8.tif source=200941_Assignment_AsFiled_22April2021#page9.tif source=200941_Assignment_AsFiled_22April2021#page10.tif	

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6671734

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BHARAT KUMAR RANGARAJAN	08/12/2020
DIPTI RANJAN PAL	12/16/2020
KEITH ALAN BOWMAN	07/20/2020
SRINIVAS TURAGA	09/10/2020
ATEESH DEEPANKAR DE	08/20/2020
SHIH-HSIN JASON HU	07/27/2020
CHANDAN AGARWALLA	04/18/2021
<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>	16874538
<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>	
<b>Phone:</b>	310.277.7200
<b>Email:</b>	Qualcomm-USPTO@seyfarth.com
<b>Correspondent Name:</b>	SEYFARTH SHAW LLP
<b>Address Line 1:</b>	2029 CENTURY PARK EAST, SUITE 3500
<b>Address Line 4:</b>	LOS ANGELES, CALIFORNIA 90067
<b>ATTORNEY DOCKET NUMBER:</b>	200941
<b>NAME OF SUBMITTER:</b>	JOSEPH LUTZ
<b>SIGNATURE:</b>	/Joseph Lutz/
<b>DATE SIGNED:</b>	04/22/2021

## ASSIGNMENT

WHEREAS, WE,

1. **Bharat Kumar RANGARAJAN**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 92121-1714**,
2. **Dipti Ranjan PAL**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 92121-1714**,
3. **Keith Alan BOWMAN**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 92121-1714**,
4. **Srinivas TURAGA**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 92121-1714**,
5. **Ateesh Deepankar DE**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 92121-1714**,
6. **Shih-Hsin Jason HU**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 92121-1714**,
7. **Chandan AGARWALLA**, having a mailing address located at **5775 Morehouse Drive, San Diego, California, 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 **ON-DIE VOLTAGE-FREQUENCY SECURITY MONITOR** (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. **16/874,538**, filed on **May 14, 2020**, Qualcomm Reference Number

200941, 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, 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 BANGALORE, on 8/12/2020  
City, State Date  
*Bharat Kumar*  
Bharat Kumar RANGARAJAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date  
Dipti Ranjan PAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date  
Keith Alan BOWMAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date  
Srinivas TURAGA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date  
Ateesh Deepankar DE

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date  
Shih-Hsin Jason HU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date  
Chandan AGARWALLA

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Bharat Kumar RANGARAJAN

Done at Irvine, CA, on 12/16/20  
City, State Date Dipti Ranjan Pal  
Dipti Ranjan PAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Keith Alan BOWMAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Srinivas TURAGA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ateesh Deepankar DE

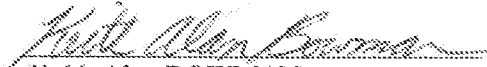
Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Shih-Hsin Jason HU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Chandan AGARWALLA

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Bharat Kumar RANGARAJAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Dipti Ranjan PAL

Done at Raleigh, NC, on 7/22/2020  
City, State Date   
Keith Alan BOWMAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Srinivas TURAGA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ateesh Deepankar DE

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Shih-Hsin Jason HU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Chandan AGARWALLA



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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Bharat Kumar RANGARAJAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Dipti Ranjan PAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Keith Alan BOWMAN

Done at Bengaluru, KA., on SEP 17<sup>th</sup>, 2020  
City, State Date

T. Srinivas  
\_\_\_\_\_  
Srinivas TURAGA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Ateesh Deepankar DE

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Shih-Hsin Jason HU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

\_\_\_\_\_  
Chandan AGARWALLA

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

Done at BANGALORE, on \_\_\_\_\_  
City, State Date

Bharat Kumar RANGARAJAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

Dipti Ranjan PAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

Keith Alan BOWMAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

Srinivas TURAGA

Done at BANGALORE, on 8/20/2020  
City, State Date

Ateesh Deepankar DE  
Ateesh Deepankar DE

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

Shih-Hsin Jason HU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date

Chandan AGARWALLA

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


Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Bharat Kumar RANGARAJAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Dipti Ranjan PAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Keith Alan BOWMAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Srinivas TURAGA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ateesh Deepankar DE

Done at San Diego, CA, on 7/27/2020  
City, State Date   
Shih-Hsin Jason HU

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Chandan AGARWALLA

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

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Bharat Kumar RANGARAJAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Dipti Ranjan PAL

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Keith Alan BOWMAN

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Srinivas TURAGA

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Ateesh Deepankar DE

Done at \_\_\_\_\_, on \_\_\_\_\_  
City, State Date Shih-Hsin Jason HU

Done at SAN DIEGO, CA, on 04/18/21  
City, State Date   
Chandan AGARWALLA