507090592 01/24/2022

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7137429

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
	Corrective Assignment to correct the SPELLING OF THE MIDDLE NAME OF THIRD INVENTOR FROM REY VALLARBA TO REY VILLARBA previously recorded on Reel 055671 Frame 0214. Assignor(s) hereby confirms the THIRD INVENTOR'S NAME IS JOAN REY VILLARBA BUOT AND NOT JOAN REY VALLARBA BUOT AS INCORRECTLY TYPED.

CONVEYING PARTY DATA

Name	Execution Date
HONG BOK WE	11/24/2020
ANIKET PATIL	01/30/2021
JOAN REY VILLARBA BUOT	11/24/2020
ZHIJIE WANG	01/28/2021

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:	16938316

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:	203505
NAME OF SUBMITTER:	JOSEPH LUTZ
SIGNATURE:	/Joseph Lutz/
DATE SIGNED:	01/24/2022

PATENT REEL: 058829 FRAME: 0352

507090592

Total Attachments: 13 source=203505_Assignments_AsFiled_22March2021#page1.tif source=203505_Assignments_AsFiled_22March2021#page2.tif source=203505_Assignments_AsFiled_22March2021#page3.tif source=203505_Assignments_AsFiled_22March2021#page4.tif source=203505_Assignments_AsFiled_22March2021#page5.tif source=203505_Assignments_AsFiled_22March2021#page6.tif source=203505_Assignments_AsFiled_22March2021#page7.tif source=203505_Assignments_AsFiled_22March2021#page8.tif source=203505_Assignments_AsFiled_22March2021#page9.tif source=203505_Assignments_AsFiled_22March2021#page10.tif source=203505_Assignments_AsFiled_22March2021#page11.tif source=203505_Assignments_AsFiled_22March2021#page11.tif source=203505_Assignments_AsFiled_22March2021#page12.tif source=203505_Assignments_AsFiled_22March2021#page13.tif

506567371 03/22/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6614150

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HONG BOK WE	11/24/2020
ANIKET PATIL	01/30/2021
JOAN REY VALLARBA BUOT	11/24/2020
ZHIJIE WANG	01/28/2021

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:	16938316

CORRESPONDENCE DATA

Fax Number: (310)201-5219

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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:	203505
NAME OF SUBMITTER:	JOSEPH LUTZ
SIGNATURE:	/Joseph Lutz/
DATE SIGNED:	03/22/2021

Total Attachments: 12

source=203505_Assignments_AsFiled_22March2021#page1.tif source=203505_Assignments_AsFiled_22March2021#page2.tif source=203505_Assignments_AsFiled_22March2021#page3.tif

WHEREAS, WE,

- 1. Hong Bok WE, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.
- 2. Aniket PATIL, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,
- 3. Joan Rey Villarba BUOT, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,
- 4. Zhijie WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,

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 **PASSIVE DEVICE ORIENTATION IN CORE FOR IMPROVED POWER DELIVERY IN PACKAGE** (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). 16/938,316, filed on July 24, 2020, Qualcomm Reference Number 203505, 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;

PATENT Qualcomm Reference Number: 203505 Page 3 of 3

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

Done at _	Sin Diego City, State	on // Ly on Date	Hong Bok WE
Done at _	City, State	on	Aniket PATIL
Done at _	City, State	on	Joan Rey Villarba BUOT
Done at _	City State	, on	Zhijie WANG

WHEREAS, WE,

- 1. Hong Bok WE, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.
- 2. Aniket PATIL, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,
- 3. Joan Rey Villarba BUOT, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,
- 4. Zhijie WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,

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 **PASSIVE DEVICE ORIENTATION IN CORE FOR IMPROVED POWER DELIVERY IN PACKAGE** (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). 16/938,316, filed on July 24, 2020, Qualcomm Reference Number 203505, 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:

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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		
	City, State	Date	Hong Bok WE
Sone at	an Oiego, CA	1/30/2021	Sall-
	City, State	Date	Aniket PATIL
Done at _	, on _	Date	Joan Rey Villarba BUOT
Done at	on,	Duc	
	City, State	Date	Zhijie WANG

WHEREAS, WE,

- 1. Hong Bok WE, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.
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- 4. Zhijie WANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.,

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PATENT

Qualcomm Reference Number: 202505

Page 3 of 3

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Done at	, on		
•	City, State	Date	Hong Bok WE
Done at _	City, State	Date	Aniket PATIL
Done at _	San Diego, CA., on City, State	11/24/20 Date	John Rey Villarba BUOT
Done at _	, on	Date	Zhijie WANG

WHEREAS, WE,

- 1. Hong Bok WE, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121-1714, U.S.A.
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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;

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PATENT (2006-2008) 2006-2006

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

Done at	City State	Date	Hong Rok WE
Done at _	City Salar	Date	Aniket PATIL
Done at _	City State	Date	Joan Rey Villarba BUOT
Dency	<u> </u>	<u>44242</u> 3	Zhijie WANG

PATENT REEL: 058829 FRAME: 0366

RECORDED: 01/24/2022