506593388 04/05/2021

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6640191

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PETER PUI LOK ANG	03/12/2020
GABI SARKIS	03/12/2020
PETER GAAL	04/22/2020
WANSHI CHEN	03/12/2020
JOSEPH BINAMIRA SORIAGA	09/22/2020
HEECHOON LEE	03/11/2020
SEYEDKIANOUSH HOSSEINI	03/21/2020
HUILIN XU	03/27/2020
WOOSEOK NAM	04/24/2020
HUNG DINH LY	04/24/2020

RECEIVING PARTY DATA

Name:	QUALCOMM INCORPORATED
Street Address:	5775 MOREHOUSE DRIVE
City:	SAN DIEGO
State/Country:	CALIFORNIA
Postal Code:	92121-1714

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	16739035
Application Number:	62791673

CORRESPONDENCE DATA

Fax Number: (619)235-0398

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: 619-238-1900

Email: Docketing@procopio.com, Patrick.Lemus@procopio.com
Correspondent Name: PROCOPIO CORY HARGREAVES & SAVITCH LLP.

Address Line 1:525 B STREET, SUITE 2200Address Line 4:SAN DIEGO, CALIFORNIA 92101

PATENT 506593388 REEL: 055824 FRAME: 0661

ATTORNEY DOCKET NUMBER:	129025-0191UT01/191087			
NAME OF SUBMITTER:	PATRICK LEMUS			
SIGNATURE:	/Patrick Lemus/			
DATE SIGNED:	04/05/2021			
Total Attachments: 28				
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WHEREAS, WE,

- 1. Peter Pui Lok ANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
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- 6. Heechoon LEE, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 7. **Seyedkianoush HOSSEINI**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 8. Huilin XU, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 9. Wooseok NAM, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 10. Hung Dinh LY, 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 **SECONDARY CELL DORMANCY FOR NEW RADIO CARRIER AGGREGATION** (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

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). 16/739,035 filed January 9, 2020, Qualcomm Reference Number 191087, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/791,673, filed January 11, 2019, Qualcomm Reference Number 191087P1, (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

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 So	4)227 Aon	<u>2/12/752</u> 5 Date	Peter Pui Lok ANG
Ci	ty. State/	Date	Peter Pui Lok ANG
Done at See	<u>O 430C A</u> ,an	2020 41.14	Gabi SARKIS
a	ty, State	Date	Gabi SARKIS
Done at	, 00, 00,		
Ci	ly, State	Date	Peter GAAL
Done at	May CA	3/11/2020 Date	
C	ty, State	Dete	Wanshi CHEN
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Čit	y, State	Date	Hung Dinh LY

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Done at		.00		
	City, State		Date	Peter Pui Lok ANG
Done at			Date	
	City, State		Date	Gabi SARKIS
Done at _		, on	Date	
	City, State		Date	Peter GAAL
Done at	200	, on	Date	Wanshi CHEN
	Chy, State		Date	Wanshi CHEN
Done at		, on	Date	Joseph Binamira SORIAGA
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Done at _	City, State	, on	Date	Wooseok NAM
Done at	City State	, on	Date	Hung Dinh LY
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Done at	City, State	_, on	Date	Gabi SARKIS
Done at	City, State	, on	Date	Peter GAAL
Done at	City, State	.on_	Date	Wanshi CHEN
Done at	City, State	, on	Date	Joseph Binamira SORIAGA
Done at	City, State	• on	Date	Heechoon LEE
Done at	City, State	_, on	Date	Seyedkianoush HOSSEINI
Done at	City, State	• on	Date	Huilin XU
Done at	City, State	, on	Date	Wooseok NAM
Done at	Sam Viego CA. City, State	, on <u>(</u>)4 24 2020 Date	Hung Dinh LY

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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 **SECONDARY CELL DORMANCY FOR NEW RADIO CARRIER AGGREGATION** (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

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). 16/739,035 filed January 9, 2020, Qualcomm Reference Number 191087, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/791,673, filed January 11, 2019, Qualcomm Reference Number 191087P1, (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

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	, on	Peter Pui Lok ANG
Done at		, on	
	City, State	, on	Gabi SARKIS
Done at S	on Diego, Ch	, on <u>04/22/20</u> Date	Peter GAAL
	City, State	Date	Peter GAAL
Done at		, Ori	
10000	City, State	Date	Wanshi CHEN
Done at	***************************************	, on	2000000
	City, State	Date	Joseph Binamira SORIAGA
Done at		, on	Heechoon LEE
	City, State	Date	Heechoon LEE
Done at		, on	
	City, State	Date	Seyedkianoush HOSSEINI
Done at		, on	Huilin XU
	City, State	Date	Huilin XU
Done at _		, 611	Wooseok NAM
	City, State	Date	Wooscok NAM
Done at		, on Date	Hung Dinh LY
	City, State	Date	Hong Dinh LY

WHEREAS, WE,

- 1. Peter Pui Lok ANG, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 2. Gabi SARKIS, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 3. Peter GAAL, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 4. Wanshi CHEN, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 5. Joseph Binamira SORIAGA, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 6. Heechoon LEE, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 7. **Seyedkianoush HOSSEINI**, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 8. Huilin XU, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.
- 9. Wooseok NAM, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714,
- 10. Hung Dinh LY, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714.

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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). 16/739,035 filed January 9, 2020, Qualcomm Reference Number 191087, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/791,673, filed January 11, 2019, Qualcomm Reference Number 191087P1, (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;

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Done at		, on	
.	City, State	on	Peter Pui Lok ANG
Done at_		, on	Gabi SARKIS
	City, State	Date	Gabi SARKIS
Done at		, on	Peter GAAL
	City, State	Date	reier GAAL
Done at _	Pila Char	, on	Wanshi CHEN
	Cny, State	Date	** (\$92,730) ************************************
Done at .	City State	, on	Joseph Binamira SORIAGA
	X 1 2 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Done at .	City, State	, on	Heechoon LEE
Done at	City, State	_, on Date	Seyedkianoush HOSSEINI
Done at		.on	
	City, State	Date	Huilin XU
Done at	San Dunn, CA	.on */>*/2020	Wooseok NAM
	City, State	Date	Wooseok NAM
Done at		, on	Hung Dinh LY
	City, State	Date	Hung Dinh LY

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PATENT

Qualcomm Reference Number: 191087

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	
Done atCity, State	Date	Peter Pui Lok ANG
Done at	, on	
Done atCity, State	Date	Gabi SARKIS
Done atCity, State	, on	
City, State	Date	Peter GAAL
Done atCity, State	, on	
Cny, state	Date	Wanshi CHEN
Done at San Piego Ch	, on 9/22/2020	Joseph Bigamira SORIAGA
Cny, State	Date	Joseph Bigamira SORIAGA
Done atCity, State	, on	
City, State	Date	Heechoon LEE
Done atCity, State	_, on	
City, State	Date	Seyedkianoush HOSSEINI
Done atCity, State	, on	
City, State	Date	Huilin XU
Done at		
Done atCity, State	, on Date	Wooseok NAM
		: 1 10000000000000000000000000000000000
Done atCity, State	, on	
City, State	Date	Hung Dinh LY

PATENT REEL: 055824 FRAME: 0690

RECORDED: 04/05/2021