PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN D CHENG	08/25/2011
REMI J GURSKI	08/26/2011
KUO-CHUN LEE	08/25/2011
TOM CHIN	08/29/2011
GUANGMING SHI	08/29/2011

RECEIVING PARTY DATA

Name:	QUALCOMM Incorporated
Street Address:	5775 Morehouse Drive
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17335636

CORRESPONDENCE DATA

Fax Number: (858)658-2502

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.

Email:us-docketing@qualcomm.comCorrespondent Name:QUALCOMM INCORPORATEDAddress Line 1:5775 MOREHOUSE DRIVEAddress Line 4:SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER:	090897C1C1C1
NAME OF SUBMITTER:	KARINA FILER
SIGNATURE:	/karina filer/
DATE SIGNED:	08/10/2021

Total Attachments: 4

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ASSIGNMENT

WHEREAS, WE,

- 1. Steven D. Cheng, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121 and a resident of San Diego, California, US
- 2. Remi J. Gurski, a citizen of Canada, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121 and a resident of San Diego, California, US
- 3. Kuo-Chun Lee, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121 and a resident of San Diego, California, US
- 4. Tom Chin, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121 and a resident of San Diego, California, US
- 5. Guangming Shi, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California, 92121 and a resident of San Diego, California, US

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 MULTIPLE INPUT MULTIPLE OUTPUT (MIMO) BASED CONCURRENT SCAN OF NEIGHBOR CELLS (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).

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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 Ref. No. 090897

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AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	5.0, .on	04-25-2011	Steven D. Cheng
•	LOCATION	DATE	Steven D. Cheng
Done at	, on LOCATION		
	LOCATION	DATE	Remi J. Gurski
Done at	500 9.90, on	8745 /wa	Eur C
· ***	LOCATION	DATE	Kuo-Chun Lee
Done at	San Diego, on	8/29/2011	Jon Chin
	LOCATION	DATE	Tom Chin
Done at	((m)), (i), on	<u> \$/29/11</u>	<u> </u>
	LOCATION	DATE	Guangming Shi

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Done at		on	
	LOCATION	DATE	Steven D. Cheng
Done at _	Sun Diego CA	on <u>4/24/20 </u> DATE	Aur Mun
	LOCATION	DATE	Remi J. Gurski
Done at _	,	on	
	LOCATION	DATE	Kuo-Chun Lec
Done at	,	on	
	LOCATION	DATE	Tom Chin
Done at		on	
	LOCATION	DATE	Guangming Shi

PATENT REEL: 057137 FRAME: 0433

RECORDED: 08/10/2021