505868673 01/16/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5915501

SUBMISSION TYPE:	NEW ASSIGNMENT		
NATURE OF CONVEYANCE:	ASSIGNMENT		

CONVEYING PARTY DATA

Name	Execution Date
ISAAC GARCIA MUNOZ	12/27/2019
SIDDHARTHA GOUTHAM SWAMINATHAN	01/02/2020
S M AKRAMUS SALEHIN	01/02/2020
MOO YOUNG KIM	01/03/2020
NILS GÜNTHER PETERS	12/30/2019
DIPANJAN SEN	01/08/2020

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	16584614		

CORRESPONDENCE DATA

Fax Number: (651)735-1102

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: 651 735 1100

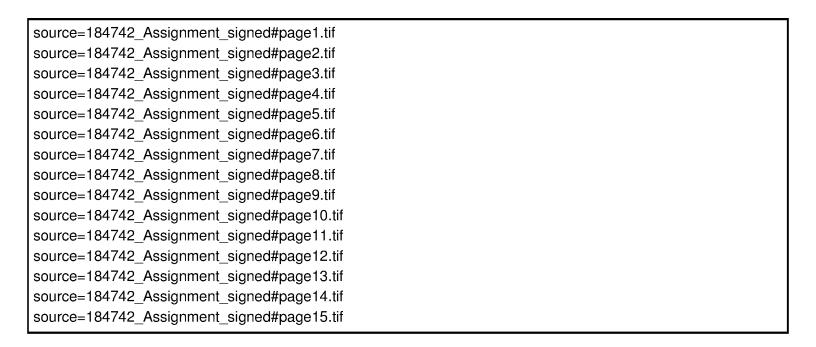
Email: pairdocketing@ssiplaw.com **Correspondent Name:** SHUMAKER & SIEFFERT, P. A. Address Line 1: 1625 RADIO DRIVE, SUITE 100 Address Line 4: WOODBURY, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	1414-621US01/184742
NAME OF SUBMITTER:	SHIRLEY A. BETLACH
SIGNATURE:	/Shirley A. Betlach/
DATE SIGNED:	01/16/2020

Total Attachments: 15

PATENT REEL: 051538 FRAME: 0741

505868673



WHEREAS, WE,

- 1. Isaac Garcia MUNOZ, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,
- 2. Siddhartha Goutham SWAMINATHAN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,
- 3. S M Akramus SALEHIN, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,
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- 5. Nils Günther PETERS, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714,
- 6. Dipanjan SEN, 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 REPRESENTING OCCLUSION WHEN RENDERING FOR COMPUTER-MEDIATED REALITY SYSTEMS (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. 16/584,614 filed September 26, 2019 Qualcomm Reference No. 184742, and all provisional applications relating thereto, together with U.S. Provisional Application No. 62/740,085, filed October 02, 2018, Qualcomm Reference No. 184742P1 (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application

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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 🕖	alamo Sadien, on	12/27/19	Isaac Garcia MUNOZ
·	LOCATION	DATE	Isaac Garcia MUNOZ
Done at	, on		
	LOCATION , on	DATE	Siddhartha Goutham SWAMINATHAN
Done at	, 08		
******	LOCATION , on	DATE	S M Akramus SALEHIN
Done at	v on		
	LOCATION	DATE	Moo Young KIM
Done at			
	LOCATION	DATE	Nils Günther PETERS
Done at	no.		
	LOCATION On	DATE	Dipanjan SEN

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Done at	, 01	3.	
	LOCATION	DATE	Isaac Garcia MUNOZ
Done at	Sandiego, ca , , oi	n 01/02/2020	Siddhartha Goutham SWAMINATHAN
-	LOCATION	DATE	Siddhartha Goutham SWAMINATHAN
Done at	SAN DIEGO,CA, or	1_01/02/2020	Smale Cincol Smakramus SALEHIN
	LOCATION	DATE	S M Akramus SALEHIN
Done at	, 01	ı	
	LOCATION	DATE	Moo Young KIM
Done at	, 01	3	Nils Günther PETERS
	LOCATION	DATE	Nils Günther PETERS
Done at		DATE	
	LOCATION	DATE	Dipanjan SEN

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-	LOCATION	DATE	Isaac Garcia MUNOZ
Done at		, on	
	LOCATION	DATE	Siddhartha Goutham SWAMINATHAN
Done at		, on	
	LOCATION	DATE	S M Akramus SALEHIN
Done at	San Diego	on Jan.03, 2020 DATE	
~	LOCATION	DATE	Moo Young KIM
Done at		, on	
	LOCATION	DATE	Nils Günther PETERS
Done at_		, on	
	LOCATION	DATE	Dipanjan SEN

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	LOCATION	DA	TE	Siddhartha Goutham SWAMINATHAN
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Done at		, on		
				Moo Young KIM
Done at	San Diego	, on Dec be	> 507a	Nils Günther PETERS
	LOCATION	DA	TE	Nils Günther PETERS
Done at		. on		
	LOCATION	DA	TE	Dipanjan SEN

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~	LOCATION		ATE	Isaac Garcia MUNOZ
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	LOCATION	E	ATE	Siddhartha Goutham SWAMINATHAN
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· 	LOCATION	E	ATE	S M Akramus SALEHIN
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PATENT REEL: 051538 FRAME: 0757

RECORDED: 01/16/2020