505181252 11/08/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5228020

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONATHAN KIES	10/30/2018
ROBYN TERESA OLIVER	11/02/2018
ROBERT TARTZ	10/30/2018
DOUGLAS BREMS	11/01/2018
SUHAIL JALIL	11/02/2018

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:	16101692	

CORRESPONDENCE DATA

Fax Number: (703)391-2901

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: 7033912900

Email: ptonoticesqc@marburylaw.com

Correspondent Name: THE MARBURY LAW GROUP, PLLC Address Line 1: 11800 SUNRISE VALLEY DRIVE

15TH FLOOR Address Line 2:

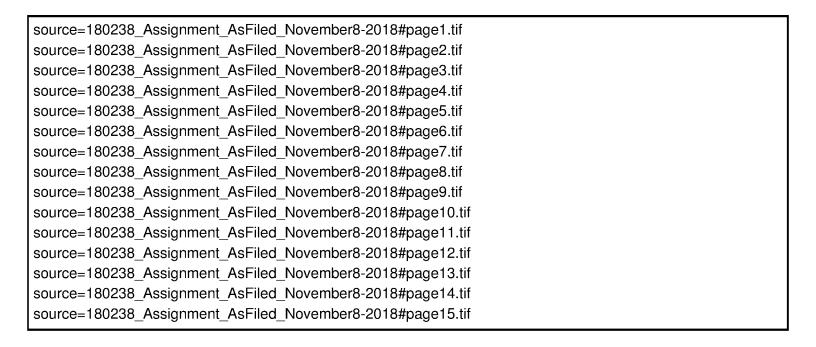
Address Line 4: RESTON, VIRGINIA 20191

ATTORNEY DOCKET NUMBER:	180238 / 1376-2220
NAME OF SUBMITTER:	WHITNEY TEETS
SIGNATURE:	/Whitney TEETS/
DATE SIGNED:	11/08/2018

Total Attachments: 15

PATENT REEL: 047450 FRAME: 0486

505181252



WHEREAS, WE,

- 1. **Jonathan KIES,** a citizen of the **United States of America,** having a mailing address located at **5775 Morehouse Drive, San Diego, CA 92121** and a resident of **Encinitas, California**;
- 2. Robyn Teresa OLIVER, a citizen of the United States of America, having a mailing address located at 1862 Guilder Glen, Escondido, CA 92029 and a resident of Escondido, California:
- 3. Robert TARTZ, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of San Marcos, California;
- 4. **Douglas BREMS,** a citizen of the **United States of America**, having a mailing address located at **4253 Calle Mejillones**, **San Diego**, **CA 92130** and a resident of **San Diego**, **California**,
- 5. Suhail JALIL, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121 and a resident of Poway, California,

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 **METHODS OF DIRECT MANIPULATION OF MULTI-LAYERED USER INTERFACES** (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). 16/101,692 filed August 13, 2018 Qualcomm Reference No. 180238, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 62/572,453 filed October 14, 2017 Qualcomm Reference No. 180192P1, together with U.S. Provisional Application No(s). 62/572,455 filed October 14, 2017 Qualcomm Reference No. 180290P1, together with U.S. Provisional Application No(s). 62/572,455 filed

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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;

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	LOČÁTION	DATE	Jonathan KIES	
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Done at	LOCATION on	DATE	Robert TARTZ	****
Done at	LOCATION on			
			Douglas BREMS	
Done at	LOCATION	DATE	Suhail JALIL	••••
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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 **METHODS OF DIRECT MANIPULATION OF MULTI-LAYERED USER INTERFACES** (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.

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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;

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;

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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;

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	LOCATION		DATE	Jonathan KIES
Done at 🔏	i/ation, 74 LOCATION	, on <i>fla</i> e	<u>8~6~ 27</u> 988 DATE	Robyn Teresa OLIVER
Done at	LOCATION	, on	DATE	Robert TARTZ
Done at	LOCATION	, on	DATE	Douglas BREMS
Done at _	LOCATION	, on	DATE	Subail IALII.

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PATENT QUALCOMM Ref. No. 180238 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	, on		
	LOCATION on	DATE	Jonathan KIES
Done at	, on		<u></u>
	LOCATION	DATE	Robyn Teresa OLIVER
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Dono ar	LOCATION	DATE	Robert TARTZ-
Done at	LOCATION on	DATE	Douglas BREMS
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Done at	on ,		
	LOCATION	DATE	Jonathan KIES
Done at _	LOCATION on	DATE	Robyn Teresa OLIVER
Done at	LOCATION , on	DATE	Robert TARTZ
Done at	Con Dieco, CA, on LOCATION	<u> </u>	Douglas BREMS
Done at	LOCATION	DATE	Suhail JALIL

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	LOCATION	DATE	Jonathan KIES
Done at	, on	DATE	Robyn Teresa OLIVER

Done at	LOCATION		
	LOCATION	DATE	Robert TARTZ
Done at	, on		Douglas BREMS
	LOCATION	DATE	Douglas BREMS
Done at	San Dieza CA, on	11/2/18	Lynd Jack
	LOCATION	DATE	Suhail JALIL

PATENT REEL: 047450 FRAME: 0502

RECORDED: 11/08/2018