504548468 09/14/2017

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4595176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
WEIHUA GAO	08/17/2017
SAI PRADEEP VENKATRAMAN	08/23/2017
JU-YONG DO	09/12/2017
GENGSHENG ZHANG	09/12/2017

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:	15635856

CORRESPONDENCE DATA

Fax Number: (408)720-8383

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: 4807208300

Email: katie lister@bstz.com

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP **Correspondent Name:**

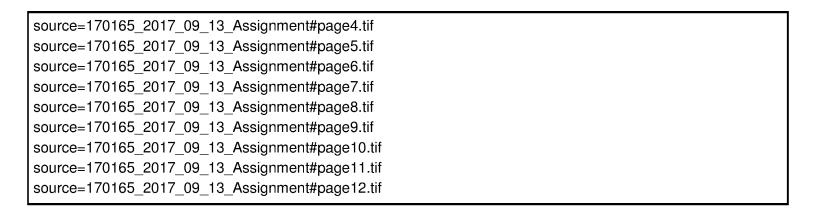
Address Line 1: 1279 OAKMEAD PARKWAY

Address Line 4: SUNNYVALE, CALIFORNIA 94085

ATTORNEY DOCKET NUMBER:	170165
NAME OF SUBMITTER:	WILLIAM L. JAFFE, REG. NO. 64977
SIGNATURE:	/William L. Jaffe/
DATE SIGNED:	09/14/2017

Total Attachments: 12

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WHEREAS, WE,

- 1. Weihua GAO, a citizen of the People's Republic of China having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Jose, California, U.S.A.,
- 2. Sai Pradeep VENKATRAMAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Santa Clara, California, U.S.A.,
- 3. Ju-Yong DO, a citizen of Republic of Korea, having a mailing address located at 19503 Stevens Creek Blvd, #108, Cupertino, CA 95104, and a resident of Cupertino, California, U.S.A..
- 4. Gengsheng ZHANG, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of Cupertino, California, 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 METHOD AND SYSTEM FOR USER EQUIPMENT MANAGING POSITIONING ASSISTANCE DATA FOR WEARABLE DEVICES (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). 15/635,856 filed June 28, 2017, Qualcomm Reference No. 170165, 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

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;

(Done at <u>←</u>	LOCATION	_, on _ <u></u>	8/7/17 DATE	Weihua GAO
Done at _	LOCATION	, on	DATE	Sai Pradeep VENKATRAMAN
Done at _	LOCATION	_, on	DATE	Ju-Yong DO
Done at _	LOCATION	_, on	DATE	Gengsheng ZHANG

WHEREAS, WE,

- 1. Welhua GAO, a citizen of the People's Republic of China having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Jose, California, U.S.A.,
- 2. Sai Pradeep VENKATRAMAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Santa Clara, California, U.S.A..
- 3. Ju-Yong DO, a citizen of Republic of Korea, having a mailing address located at 19503 Stevens Creek Blvd, #108, Cupertino, CA 95104, and a resident of Cupertino, California, U.S.A.,
- 4. Gengsheng ZHANG, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of Cupertino, California, 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 METHOD AND SYSTEM FOR USER EQUIPMENT MANAGING POSITIONING ASSISTANCE DATA FOR WEARABLE DEVICES (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;

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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·	LOCATION	DATE	Weihua GAO
Done at ${\cal L}$	ala Clasa, or	n <u>8/23/2×17</u> DATE	Sai Pradeep VENKATRAMÁN
	, or		Ju-Yong DO
Done at		1	
	LOCATION	DATE	Gengsheng ZHANG

WHEREAS, WE,

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- 2. Sai Pradeep VENKATRAMAN, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of Santa Clara, California, U.S.A..
- 3. Ju-Yong DO, a citizen of Republic of Korea, having a mailing address located at 19503 Stevens Creek Blvd, #108, Cupertino, CA 95104, and a resident of Cupertino, California, U.S.A.,
- 4. Gengsheng ZHANG, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive San Diego, CA 92121-1714 and a resident of Cupertino, California, U.S.A.,

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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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Done at	, on		
-	LOCATION	DATE	Weihua GAO
Done at	, on		
	LOCATION	DATE	Sai Pradeep VENKATRAMAN
Done at _	Santa Clara, on LOCATION	9/۱ <u>۷</u> /۱۲ DATE	Ju-Yong DO
Done at_	, on		
	LOCATION	DATE	Gengsheng ZHANG

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	LOCATION	DATE	Sai Pradeep VENKATRAMAN
Done at	yön	Marie 1941, Marie III. (1981) - Artist III. (1981) - Artist III. (1981) - Artist III. (1981) - Artist III. (19	
	LOCATION	DATE	Bu-Yong DO
			A name to a
Done at 2	77.440 (/47), on	24/14/2010	GORGANY SANG
	LOCATION	DATE	// Géngsheng ZHANG

PATENT REEL: 043594 FRAME: 0759

RECORDED: 09/14/2017