PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3031882

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN K. SCHNEIDER	06/18/2014
JACK C. KITCHENS	06/18/2014
STEPHEN M. GOJEVIC	06/18/2014
TIMOTHY A. DICKINSON	09/16/2014
SAMIR K. GUPTA	09/19/2014
KOSTADIN D. DJORDJEV	06/18/2014
DAVID WILLIAM BURNS	06/18/2014
LEONARD E FENNELL	06/18/2014
SURYAPRAKASH GANTI	06/24/2014

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:	14291208
Application Number:	61830624

CORRESPONDENCE DATA

Fax Number:

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: jwalbess@hodgsonruss.com

Correspondent Name: HODGSON RUSS LLP

Address Line 1:140 PEARL STREET, SUITE 140Address Line 4:BUFFALO, NEW YORK 14202

NAME OF SUBMITTER:	JORDAN WALBESSER	
SIGNATURE:	/Jordan L. Walbesser, Reg.# 67,761/	
DATE SIGNED:	09/22/2014	DATENT

502985283 REEL: 033786 FRAME: 0286

Total Attachments: 12 source=133260_2014_09_19_Assignment#page1.tif source=133260_2014_09_19_Assignment#page2.tif source=133260_2014_09_19_Assignment#page3.tif source=133260_2014_09_19_Assignment#page4.tif source=133260_2014_09_19_Assignment#page5.tif source=133260_2014_09_19_Assignment#page6.tif source=133260_2014_09_19_Assignment#page7.tif source=133260_2014_09_19_Assignment#page8.tif source=133260_2014_09_19_Assignment#page9.tif source=133260_2014_09_19_Assignment#page10.tif source=133260_2014_09_19_Assignment#page11.tif source=133260_2014_09_19_Assignment#page11.tif source=133260_2014_09_19_Assignment#page12.tif

WHEREAS, WE,

- 1. John K. Schneider, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Snyder, New York.
- 2. Jack C. Kitchens, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Buffalo, New York,
- 3. Stephen M. Gojevic, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Lockport, New York,
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- 5. Samir K. Gupta, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Diego, California,
- 6. Kostadin D. Djordjev, a citizen of Bulgaria, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Jose, California.
- 7. David William Burns, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Jose, California,
- 8. Leonard E. Fennell, a citizen of the United States, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of San Jose, California, and
- 9. Suryaprakash Ganti, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714 and a resident of Los Altos, 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 Display With Backside Ultrasonic Sensor Array (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

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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Done at LOCATION on	6/19/2014— DATE	John K. Schneider
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Done at Anhent, JY, on LOCATION	6(18/2014	Jack C. Kitchens Hyly Jack Stephen M. Gojavic
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Done at, on		Timothy A. Dickinson
		Samir K. Gupta
Done at, on _ LOCATION		Kostadin D. Djordjev
Done at, on	DATE	David William Burns
Done at, on	DATE	Leonard E. Fennell
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LOCATION	DATE	Suryaprakash Ganti

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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 Display With Backside Ultrasonic Sensor Array (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

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;

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Done at		
Done at, on LOCATION	DATE	John K. Schneider
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Done at, on _		
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Done at, on		
Done at, on _	DATE	
Done at Saw Diego, on	9/19/14	Samir K. Gupta
		Samir K. Gupta
Done at, on	DATE	
		Kostadin D. Djordjev
Done at, on	DATE	
		David William Burns
Done at, on	DATE	Leonard E. Fennell
		LLOUGIU E. Pennell
Done at, on	DATE	G.
		Suryaprakash Ganti

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			David William Burns
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	LOCATION	DATE	Leonard E. Fennell
Done at	adaday (A, on	6/24/2014	
	LOCATION	DATE	Suryaprakash Ganti

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RECORDED: 09/22/2014