PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3387299

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MURAT BALCI	04/21/2015
AVINASH SEETHARAMAIAH	04/21/2015
CHRISTOPHER PAUL FRASCATI	04/21/2015
JONNALA GADDA NAGENDRA KUMAR	04/28/2015
COLIN CHRISTOPHER SHARP	05/01/2015
DAVID RIGEL GARCIA GARCIA	05/06/2015

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:	14691358

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.

Phone: 651 735 1100

Email: pairdocketing@ssiplaw.com

Correspondent Name: SHUMAKER & SIEFFERT, P. A.

Address Line 1: 1625 RADIO DRIVE, SUITE 300

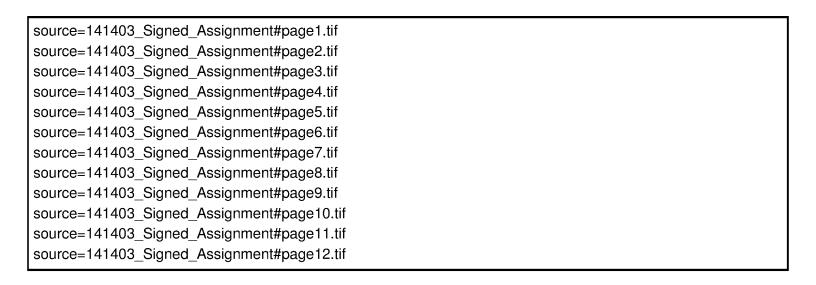
Address Line 4: WOODBURY, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	1212-830US01/141403
NAME OF SUBMITTER:	CHRIS BARTL
SIGNATURE:	/Chris Bartl/
DATE SIGNED:	06/08/2015

Total Attachments: 12

PATENT REEL: 035857 FRAME: 0194

503340679



WHEREAS, WE,

- 1. Murat Balci, a citizen of Turkey, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Orlando, FL.
- Avinash Seetharamaiah, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Chuluota, FL.
- Christopher Paul Frascati, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Oviedo, FL,
- 4. Jonnala gadda Nagendra Kumar, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Aliso Viejo, CA,
- Colin Christopher Sharp, a citizen of United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Cardiff, CA.
- David Rigel Garcia Garcia, a citizen of Spain, having a mailing address located at 5775
 Morehouse Drive, San Diego, CA 92121-1714, and a resident of North York, Canada.

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 FLEX RENDERING BASED ON A RENDER TARGET IN GRAPHICS PROCESSING (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. 14/691,358 filed April 20, 2015, Qualcomm

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	OKLANDOFL, or LOCATION	1 <u>04/21/2015</u> DATE	Murat Baldi
Done at_	Orlando, PL, or	04/21/2015 DATE	Avmash-Seetharamaiah
Done at _	Oclando FL, on LOCATION	4/21/2015 DATE	Christopher Paul Frascati
Done at _	LOCATION , on	DATE	Jonnala gadda Nagendra Kumar
Done at_	LOCATION	DATE	Colin Christopher Sharp
Done at _	LOCATION	DATE	David Rigel Garcia Garcia

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Done at	OB	
Done at LOCATION	DATE	Murat Balci
Done at, c	n	
LOCATION	DATE	Avinash Scetharamaiah
Done at, o	n	
		Christopher Paul Frascati
Done at Springer, or LOCATION	1 0 1/28/2015 DATE	Johnala gadda Nagendra Kumar
Done at, on		·
LOCATION	DATE	Colin Christopher Sharp
Done at, on		
LOCATION	DATE	David Rigel Garcia Garcia

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Done at		, on	
	LOCATION	, on	Murat Baici
Done at _		, on	
	LOCATION	DATE	Avinash Seetharamaiah
Done at		. on	
	LOCATION	, on DATE	Christopher Paul Frascati
Done at _		, on	
	LOCATION	, on	Jonnala gadda Nagendra Kumar
Done at _	SANDIES CA	, on <u>61MAY 20</u> \$	Comp. Christopher Sharp
	LOCATION	DAIE	Conn&hristopher Sharp
Done at_	E CACLA TECAM	, on	F
	LUCATION	DATE	David Rigel Garcia Garcia

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Done at		on	
	LOCATION	, on DATE	Murat Balci
Done at			Avinash Seetharamaiah
	LOCATION	DATE	Avinash Seetharamaiah
Done at	Y O/: 3 TS/35)	, on	Christopher Paul Frascati
	FOUNTION	DAIS	Cursiopner raus reascau
Done at		, on	
	LOCATION	DATE	Jonnala gadda Nagendra Kumar
Done at		, on	
	LOCATION	DATE	Colin Christopher Sharp
Done at	TOKONTO	on <u>MAY 6, 2015</u> DATE	David Garra
	LOCATION	DATE	David Rigel Carcia Garcia

PATENT REEL: 035857 FRAME: 0207

RECORDED: 06/08/2015