07/18/2016 503920117

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3966770

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DMYTRO RUSANOVSKYY	06/17/2016
SUNGWON LEE	06/20/2016
DONE BUGDAYCI SANSLI	06/16/2016
JOEL SOLE ROJALS	06/29/2016
ADARSH KRISHNAN RAMASUBRAMONIAN	06/17/2016
MARTA KARCZEWICZ	06/29/2016

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:	15176034	

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

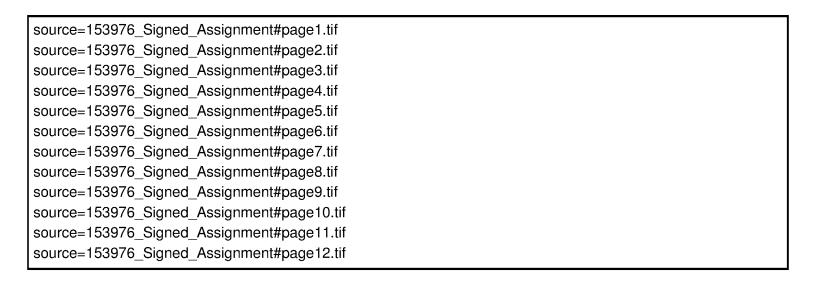
Email: pairdocketing@ssiplaw.com SHUMAKER & SIEFFERT, P. A. Correspondent Name: 1625 RADIO DRIVE, SUITE 100 Address Line 1: Address Line 4: WOODBURY, MINNESOTA 55125

ATTORNEY DOCKET NUMBER:	1414-109US01/153976
NAME OF SUBMITTER:	PATRICIA CYGAN
SIGNATURE:	/Patricia Cygan/
DATE SIGNED:	07/18/2016

Total Attachments: 12

PATENT REEL: 039181 FRAME: 0859

503920117



WHEREAS, WE,

- 1. **Dmytro Rusanovskyy,** a citizen of Ukraine, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, CA,
- 2. **Sungwon Lee,** a citizen of Korea, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, CA,
- 3. **Done Bugdayci Sansli,** a citizen of Turkey, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of Tampere, Finland,
- 4. **Joel Sole Rojals,** a citizen of Spain, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, CA,
- 5. Adarsh Krishnan Ramasubramonian, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714, and a resident of San Diego, CA,
- 6. **Marta Karczewicz**, 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 San Diego, CA,

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 CONTENT-ADAPTIVE APPLICATION OF FIXED TRANSFER FUNCTION TO HIGH DYNAMIC RANGE (HDR) AND/OR WIDE COLOR GAMUT (WCG) VIDEO DATA (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. 15/176,034 filed June 07, 2016, Qualcomm Reference No. 153976, and all provisional applications relating thereto, together with U.S. Provisional Application No. 62/172,713, filed June 08, 2015, Qualcomm Reference No. 153976P1 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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Section We	LOCATION	DATE	Dmytro Rusanovskyy
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	LOCATION	DATE	Sungwon Les
Done at	TAMPERE	on 16 June 2016	435/10
	LOCATION	DATE	Done Bugdayei Sansii
		on	Joel Sole Rojals
Done at		, on	
	LOCATION	DATE	Adarsh Krishnan Ramasubramonia
Done at_		, on	
	LOCATION	DATE	Marta Karczewicz

WHEREAS, WE,

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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 CONTENT-ADAPTIVE APPLICATION OF FIXED TRANSFER FUNCTION TO HIGH DYNAMIC RANGE (HDR) AND/OR WIDE COLOR GAMUT (WCG) VIDEO DATA (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. 15/176,034 filed June 07, 2016, Qualcomm Reference No. 153976, and all provisional applications relating thereto, together with U.S. Provisional Application No. 62/172,713, filed June 08, 2015, Qualcomm Reference No. 153976P1 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;

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	1.0CATION		DATE	Sungwon Lee
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	LOCATION		DATE	Done Bugdayci Sausli
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	LOCATION	beauty vesses	DATE	Joel Sole Rojals
Done at _		e3n	DATE	
	LOCATION		DATE	Adarsh Krishnan Ramasubramonian
Done at _		, on		Marta Karczewicz
	LOCATION		DATE	Marta Karczewicz

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rp	Cathon"	' Date'	Marta Karczewicz

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Done at		, on		
	LOCATION		DATE	Dmytro Rusanovskyy
Done at _		, on _	DATE	
	LOCATION		DATE	Sungwon Lee
Done at _		, on _	DATE	
	LOCATION		DATE	Done Bugdayci Sansli
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~	LOCATION		DATE	Joel Sole Rojals
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_	LOCATION		DATE	Adårsh Krishnan Ramasubramoniar
Done at		, on		
	LOCATION		DATE	Marta Karczewicz

PATENT REEL: 039181 FRAME: 0872

RECORDED: 07/18/2016