PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Alfred Asterjadhi	02/28/2013
Simone Merlin	03/11/2013
Maarten Menzo Wentink	03/13/2013
Santosh Paul Abraham	03/12/2013
Zhi Quan	03/13/2013

RECEIVING PARTY DATA

Name:	QUALCOMM Incorporated
Street Address:	5775 Morehouse Drive
Internal Address:	Patent Department/Central Administration
City:	San Diego
State/Country:	CALIFORNIA
Postal Code:	92121

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13779907

CORRESPONDENCE DATA

502279309

Fax Number: 8586582502

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

858-845-4265 Phone:

Email: patent.docketing.us@qualcomm.com Correspondent Name: QUALCOMM INCORPORATED

Address Line 1: 5775 MOREHOUSE DR.

Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER: 121019U6

NAME OF SUBMITTER: Gina Golia

PATENT

REEL: 030050 FRAME: 0767

Total Attachments: 15 source=121019U6_2013-03-20_ASST#page1.tif source=121019U6_2013-03-20_ASST#page2.tif source=121019U6_2013-03-20_ASST#page3.tif source=121019U6_2013-03-20_ASST#page4.tif source=121019U6_2013-03-20_ASST#page5.tif source=121019U6_2013-03-20_ASST#page6.tif source=121019U6_2013-03-20_ASST#page7.tif source=121019U6_2013-03-20_ASST#page8.tif source=121019U6_2013-03-20_ASST#page9.tif source=121019U6_2013-03-20_ASST#page10.tif source=121019U6_2013-03-20_ASST#page11.tif source=121019U6_2013-03-20_ASST#page12.tif source=121019U6_2013-03-20_ASST#page13.tif source=121019U6_2013-03-20_ASST#page14.tif source=121019U6_2013-03-20_ASST#page15.tif

WHEREAS, WE.

- 1. Alfred Asterjadhi, a citizen of Albania, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of Breukelen, Netherlands;
- 2. Simone Merlin, a citizen of Italy, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California;
- 3. Maarten Menzo Wentink, a citizen of the Netherlands, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of Breukelen, Netherlands;
- 4. Santosh Paul Abraham, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California;
- 5. **Zhí Quan**, a citizen of **China**, having a mailing address of 6582 Willowview Court, Livermore, California, 94551, US; and a resident of **Livermore**, **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 APPARATUS AND METHODS FOR BLOCK ACKNOWLEDGMENT COMPRESSION (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). 13/779,907 filed February 28th, 2013, Qualcomm Reference No. 121019U6 and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/605,078, filed February 29th, 2012, 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 <u>Breukelen, Netherlan</u> s	ls on 82/21/29/3	
LOCATION	DATE	Alfred Asterjadhi
Done at <u>San Diego, California</u>	On	
LOCATION	DATE	Simone Merlin
Done at <u>Breukelen, Netherlan</u> s	ds on	
LOCATION	DATE	Maarten Menzo Wentink
Done at <u>San Diego, California</u>	.00	
LOCATION	DATE	Santosh Paul Abraham
Done at <u>Livermore, California</u>	Oñ	
LOCATION	DATE	Zhi Quan

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- 3. Maarten Menzo Wentink, a citizen of the Netherlands, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of Breukelen, Netherlands;
- 4. Santosh Paul Abraham, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California;
- 5. **Zhi Quan**, a citizen of **China**, having a mailing address of 6582 Willowview Court, Livermore, California, 94551, US; and a resident of **Livermore**, **California**;

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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;

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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;

Done at <u>Breukeien, Netherlands</u> c	on	
LOCATION	DATE	Alfred Asterjadhi
Done at <u>San Diego, California</u> on	3/11/13	Semone Kerlen
LOCATION	DATE	Simone Merlin
Done at <u>Breukelen, Netherlands</u> c	on	
LOCATION	DATE	Maarten Menzo Wentink
Done at <u>San Diego, California</u> on		
LOCATION	DATE	Santosh Paul Abraham
Done at <u>Livermore, California</u> on		
LOCATION	DATE	Zhi Quan

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Done at <u>Breukelen, Netherlar</u>	<u></u> on	
LOCATION	DATE	Alfred Asterjadhi
Done at San Diego, Californi	<u>a</u> on	
LOCATION	DATE	Simone Merlin
		$(A_{\mathcal{A}})$
Done at Breukelen, Netherlar	<u>lds</u> on <u>13 March 2013</u>	
LOCATION	DATE	Maarten Menz o Wentink
Done at San Diego, Californi	<u>a</u> on	
LOCATION	DATE	Santosh Paul Abraham
Done at Livermore, Californi	<u>a</u> on	
LOCATION	DATE	Zhi Quan

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Done at Breukelen, Netherland	s on	
LOCATION	DATE	Alfred Asterjadhi
Done at San Diego, California	on	
LOCATION	DATE	Simone Merlin
Done at Breukelen, Netherland	s on	,
LOCATION	DATE	Maårten Menzo Wentink
Done at San Diego, California	on 3/12/90/3	1-1-1-1
LOCATION	DATE	Santosh Paul Abraham
Done at Livermore, California	ón	
LOCATION	DATE	Zhi Quan

WHEREAS, WE,

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Done at Breukelen, Netherlands o	n	
LOCATION	DATE	Alfred Asterjadhi
Done at <u>San Diego, California</u> on		
LOCATION	DATE	Simone Merlin
Done at Breukelen, Netherlands o	11	
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Done at San Diego, California on		
LOCATION	DATE	Santosh Paul Abraham
Done at Livermore, California on	3/13 /2013	
LOCATION	DATE	Zhi Ouan

PATENT REEL: 030050 FRAME: 0783

RECORDED: 03/20/2013