PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Osok Song	07/29/2011
Madhavan Srinivasan Vajapeyam	07/15/2011
Tingfang Ji	07/19/2011
Aleksandar Damnjanovic	07/29/2011
Alan Barbieri	07/20/2011

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:	13164713

CORRESPONDENCE DATA

Fax Number: (310)201-5219

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

Phone: (310) 201-5262

qualcomm-uspto@seyfarth.com Email:

Correspondent Name: Alan M. Lenkin

Address Line 1: 2029 Century Park East

Address Line 2: Suite 3500

Address Line 4: Los Angeles, CALIFORNIA 90067

ATTORNEY DOCKET NUMBER:	102196
NAME OF SUBMITTER:	Alan M. Lenkin

REEL: 026817 FRAME: 0370

PATENT

Total Attachments: 15 source=60049 PM992_102196_2011-07-29_Signed_ASST#page1.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page2.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page3.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page4.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page5.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page6.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page7.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page8.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page9.tif source=60049 PM992 102196 2011-07-29 Signed ASST#page10.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page11.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page12.tif source=60049 PM992 102196 2011-07-29 Signed ASST#page13.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page14.tif source=60049 PM992_102196_2011-07-29_Signed_ASST#page15.tif

ASSIGNMENT

WHEREAS, WE,

- 1. Osok Song, 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,
- 2. Madhavan Srinivasan Vajapeyam, a citizen of Brazil, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 3. Tingfang Ji, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, CA 92121-1714 and a resident of San Diego, CA,
- 4. Aleksandar Damnjanovic, 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 Del Mar, CA,
- 5. Alan Barbieri, a citizen of Italy, 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 ADAPTIVE RESOURCE PARTITIONING INFORMATION (ARPI) TRANSITION BEHAVIOR IN HETEROGENEOUS NETWORKS (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). 13/164,713 filed June 20, 2011, Docket No. 102196, and all provisional applications relating thereto, together with U.S. Provisional Application No(s). 61/356,999, filed June 21, 2010, Docket No. 102196P1, (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 reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

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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;

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;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at	San Diego.	on	7/29/2011	Osok Song
•	LOCATION		DATE	Osok Song
Done at		on		
	LOCATION		DATE	Madhavan Srinivasan Vajapeyam
Done at		on_		
	LOCATION		DATE	Tingfang Ji
Done at	,	on_		
	LOCATION		DATE	Aleksandar Damnjanovic
Done at		on		
	LOCATION		DATE	Alan Barbieri

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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;

AND WE HEREBY represent that WE have full and exclusive, unencumbered right to sell, assign, convey and transfer all subject matter herein, and hereby covenant that WE have not and will not execute any writing or do any act whatsoever conflicting with these presents.

Done at		, on		
	LOCATION		DATE	Osok Song
Done at	Su. D. 290	, on	07-15-2011	Medlion S. Viejonen
	LOCATION		DATE	Madhavan Srinivasan Vajapeyam
Done at	LOCATION	, on	DATE	Tingfang Ji
Done at		. on		
	LOCATION	T man	DATE	Aleksandar Damnjanovic
Done at		, on		
	LOCATION		DATE	Alan Barbieri

ASSIGNMENT

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Done at	, on	
LOCATION	DATE	Osok Song
Done at		
LOCATION	DATE	Madhavan Srinivasan Vajapeyam
Done at San Viego	$\int_{\text{On}} \frac{7/(9/20)}{\text{DATE}}$	(1
LOCATION	DATE	Tingfang Ji
Done at	, on	
LOCATION	DATE	Aleksandar Damnjanovic
Done at	, on	
LOCATION	DATE	Alan Barbieri

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Done at	, on		
LOC	CATION	DATE	Osok Song
Done at	, on		
LOC	CATION on	DATE	Madhavan Srinivasan Vajapeyam
Done at	, on		
	CATION	DATE	Tingfang Ji
Done at <u>San</u>	Diego, on	7/29/11 DATE	Aleksandar Damnjanovic
Done at	, on		<i>N</i> J
	CATION	DATE	Alan Barbieri

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PATENT

Docket No. 102196 Page 3 of 3

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Done at	,	on		
-	LOCATION		DATE	Osok Song
Done at _	,	on		
	LOCATION		DATE	Madhavan Srinivasan Vajapeyam
Done at_	5	on		
	LOCATION	-	DATE	Tingfang Ji
Done at_	······································	on		
•	LOCATION		DATE	Aleksandar Damnjanovic
Done at_	SAN DIEGO,	on	7-20-11	Alen Berbieri
			DATE	

RECORDED: 08/26/2011