02/13/2012 501818778

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Daniel KOMAROMY	02/07/2012
Alex GANTMAN	12/01/2011
Brian M. ROSENBERG	12/15/2011
Arun BALAKRISHAN	01/20/2012
Gregory C. ROSE	12/01/2011
Anand PALANIGOUNDER	12/02/2011
Renwei GE	01/20/2012

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:	13290932

CORRESPONDENCE DATA

Fax Number: (858)658-2502 858-845-4265 Phone:

Email: us-docketing@qualcomm.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: QUALCOMM INCORPORATED Address Line 1: 5775 MOREHOUSE DR.

Address Line 4: SAN DIEGO, CALIFORNIA 92121

PATENT

REEL: 027696 FRAME: 0232

ATTORNEY DOCKET NUMBER: 111028		
NAME OF SUBMITTER: Cindy McClure		
Total Attachments: 8 source=111028_13February2012_Assignment-executed#page1.tif source=111028_13February2012_Assignment-executed#page2.tif source=111028_13February2012_Assignment-executed#page3.tif source=111028_13February2012_Assignment-executed#page4.tif source=111028_13February2012_Assignment-executed#page5.tif source=111028_13February2012_Assignment-executed#page6.tif source=111028_13February2012_Assignment-executed#page7.tif source=111028_13February2012_Assignment-executed#page8.tif		

ASSIGNMENT

WHEREAS, WE,

- 1. **Daniel KOMAROMY**, a citizen of Hungary, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., and a resident of San Diego, CA,
- 2. **Alex GANTMAN**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., and a resident of Poway, CA,
- 3. **Brian M. ROSENBERG**, a citizen of the United States of America, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., and a resident of San Diego, CA,
- 4. **Arun BALAKRISHAN**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., and a resident of San Diego, CA,
- 5. **Renwei GE**, a citizen of China, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., and a resident of San Diego, CA,
- 6. **Gregory G. ROSE**, a citizen of Australia, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., and a resident of San Diego, CA,
- 7. **Anand PALANIGOUNDER**, a citizen of India, having a mailing address located at 5775 Morehouse Drive, San Diego, California 92121-1714, U.S.A., 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 METHODS, DEVICES, AND SYSTEMS FOR DETECTING RETURN ORIENTED PROGRAMMING EXPLOITS (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). 13/290,932 filed November 7, 2011, Qualcomm Reference No. 111028, and all provisional applications relating thereto, (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;

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

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.

.on 02/07/11	M L
DATE	Daniel KOMAROMY
, on	
DATE	Alex GANTMAN
, on	
DATE	Brian M. ROSENBERG
on	
DATE	Arun BALAKRISHAN
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DATE	Renwei GE
on	
DATE	Gregory G. ROSE
, on	Anand PALANIGOUNDER
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Done at		, on	
_	LOCATION	DATE	Daniel KOMAROMY
Done at _	Son Diego LOCATION	, on <u>(2/1/2011</u> DATE	Alex GANTMAN
	LOCATION	, on	Brian M. ROSENBERG
Done at _	LOCATION	, on	Arun BALAKRISHAN
Done at	LOCATION	, on	Renwei GE
Done at _	San Digital Cocation	Åon <u>l⊋ii-[2-0]</u> DATE	Gregory G. ROSE
Done at _	LOCATION	, on	Anand PALANIGOUNDER

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Done at	, on OCATION	DATE	Gregory G. ROSE
Done at	on	DATE	Anand PALANIGOUNDER

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	LOCATION	DATE	Daniel KOMAROMY
Done at		, on	Alex GANTMAN
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	LOCATION	DATE	Brian M. ROSENBERG
Done at	SAN DIEGO, CA	on 1/20/2012 DATE	Bour
	LOCATION	DATE	Arun BALAKRISHAN
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	LOCATION	DATE	Renwei GE
Done at		, on	
	LOCATION	DATE	Gregory G. ROSE
Done at	* A. A. A. M.	, on	Anand PALANICOUNDED
	LOCATION	DATE	Anand PALANICOUNDED

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LOCAT	ION	DATE	Renwei GE
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LOCATI	ION	DATE	Gregory G. ROSE
Done at	, on		Anand PALANIGOUNDER
LOCATI	ON	DATE	Anand PALANICOUNDER

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	LOCATION	DATE	Daniel KOMAROMY
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	LOCATION	DATE	Alex GANTMAN
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· ,~	LOCATION	DATE	Brian M. ROSENBERG
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	LOCATION	DATE	Renwei GE
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	LOCATION	, on	Gregory G. ROSE
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PATENT REEL: 027696 FRAME: 0241

RECORDED: 02/13/2012