

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ALEXANDER GANTMAN</td> <td>06/11/2008</td> </tr> <tr> <td>GREGORY GORDON ROSE</td> <td>06/11/2008</td> </tr> <tr> <td>JOHN W. NOERENBERG II</td> <td>06/11/2008</td> </tr> <tr> <td>PHILIP MICHAEL HAWKES</td> <td>06/12/2008</td> </tr> </tbody> </table>		Name	Execution Date	ALEXANDER GANTMAN	06/11/2008	GREGORY GORDON ROSE	06/11/2008	JOHN W. NOERENBERG II	06/11/2008	PHILIP MICHAEL HAWKES	06/12/2008
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PHILIP MICHAEL HAWKES	06/12/2008										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13859646</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13859646						
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Application Number:	13859646										
CORRESPONDENCE DATA											
Fax Number:	(858)658-2502										
Phone:	858-845-4265										
Email:	us-docketing@qualcomm.com										
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
Correspondent Name:	QUALCOMM INCORPORATED										
Address Line 1:	5775 MOREHOUSE DR.										
Address Line 4:	SAN DIEGO, CALIFORNIA 92121										
ATTORNEY DOCKET NUMBER:	050450D1										
NAME OF SUBMITTER:	CINDY MCCLURE										

Signature:	/ Cindy McClure /
Date:	03/03/2014
Total Attachments: 3 source=050450D1_3March2014_executed_Assignment-11817146-as_filed#page1.tif source=050450D1_3March2014_executed_Assignment-11817146-as_filed#page2.tif source=050450D1_3March2014_executed_Assignment-11817146-as_filed#page3.tif	

## ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that We,

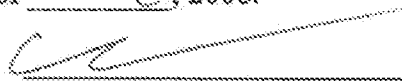
1. Alexander Gantman, a citizen of the United States, having a place of residence at 13242 Edina Way, Poway California, 92064;
2. Gregory Gordon Rose, a citizen of Australia, having a place of residence at 3234 North Star Drive, San Diego, California, 92117;
3. John W. Noerenberg II, a citizen of the United States, having a place of residence at 12343 Fig Tree St., San Diego, California, 92131;
4. Philip Michael Hawkes, a citizen of Australia, having a place of residence at 259 Greatwestern Highway, Warrimoo, Australia, NSW, 2774;

have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775 Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to **SMALL PUBLIC-KEY BASED DIGITAL SIGNATURES FOR AUTHENTICATION** by us devised and the International Patent Application therefore filed in the United States Patent and Trademark Office, as Receiving Office, on 8/24/2007, and assigned PCT International Application No. PCT/US2006/006650, including without limitation, all provisional patent applications, including Provisional Application Number 60/656,796 filed on 2/25/2005, and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisions, and continuations thereof, including the subject matter of any and all claims which

may be obtained in every such patent, and all foreign rights to said invention, and covenant that we have full right to do so, and agree that we will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted in the United States for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at Poway California this 11 day of June, 2008.

  
\_\_\_\_\_  
Alexander Gantman

Done at San Diego, California this 11<sup>th</sup> day of June, 2008.

  
\_\_\_\_\_  
Gregory Gordon Rose

Done at San Diego, California this 11<sup>th</sup> day of June, 2008.

  
\_\_\_\_\_  
John W. Noernberg II

Done at Warrimoo, Australia this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Philip Michael Hawkes

divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that we have full right to do so, and agree that we will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

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Done at Poway California this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Alexander Gantman

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
Gregory Gordon Rose

Done at San Diego, California this \_\_\_\_\_ day of \_\_\_\_\_, 2008.

\_\_\_\_\_  
John W. Noerenberg II

Done at Warrimoo, Australia this 12 day of June, 2008.

Philip Michael Hawkes  
Philip Michael Hawkes