

## PATENT ASSIGNMENT

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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>Bjorn Bjerke</td><td>04/03/2008</td></tr><tr><td>Steven J Howard</td><td>04/03/2008</td></tr></tbody></table>		Name	Execution Date	Bjorn Bjerke	04/03/2008	Steven J Howard	04/03/2008				
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Bjorn Bjerke	04/03/2008										
Steven J Howard	04/03/2008										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>QUALCOMM Incorporated</td></tr><tr><td>Street Address:</td><td>5775 Morehouse Dr.</td></tr><tr><td>City:</td><td>San Diego</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>92121</td></tr></table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Dr.	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121
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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>13310558</td></tr></tbody></table>		Property Type	Number	Application Number:	13310558						
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Application Number:	13310558										
CORRESPONDENCE DATA											
Fax Number: (858)658-2502											
Phone: 858-845-4265											
Email: patent.docketing.us@qualcomm.com											
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name: QUALCOMM INCORPORATED											
Address Line 1: 5775 MOREHOUSE DR.											
Address Line 4: SAN DIEGO, CALIFORNIA 92121											
ATTORNEY DOCKET NUMBER:	061359C1										
NAME OF SUBMITTER:	Sheryl Schoen										
Total Attachments: 2 source=061359C1_2011-12-02_ASSIGN#page1.tif source=061359C1_2011-12-02_ASSIGN#page2.tif											

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PATENT  
REEL: 027326 FRAME: 0984

**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. **Bjorn Bjerke**, a citizen of Norway, having a place of residence at **1313 Washington Street, Apt. 204, Boston, Massachusetts 02118**; and
2. **Steven J. Howard**, a citizen of the United States, having a place of residence at **75 Heritage Avenue, Ashland, Massachusetts 01721**;

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 whole right, title and interest in and to a certain invention relating to:

**SYSTEMS AND METHODS FOR ENHANCED CHANNEL ESTIMATION IN  
WIRELESS COMMUNICATION SYSTEMS**

by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **December 27, 2007**, and assigned Serial No. **11/965,655**, including, without limitation, all provisional patent applications (including provisional application Serial No. **60/883,090**, filed **January 2, 2007**) , and all original and reissue patents granted thereof, 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 us 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 for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at Concord, Mass. this 3<sup>rd</sup> day of April, 2008.

  
Bjorn Bjerke

Done at Concord Mass this 3<sup>rd</sup> day of April, 2008.

  
Steven J. Howard