

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>Tom Chin</td> <td>01/04/2011</td> </tr> <tr> <td>Guangming Shi</td> <td>01/04/2011</td> </tr> <tr> <td>Kuo-Chun Lee</td> <td>01/04/2011</td> </tr> </tbody> </table>		Name	Execution Date	Tom Chin	01/04/2011	Guangming Shi	01/04/2011	Kuo-Chun Lee	01/04/2011
Name	Execution Date								
Tom Chin	01/04/2011								
Guangming Shi	01/04/2011								
Kuo-Chun Lee	01/04/2011								
RECEIVING PARTY DATA									
Name:	QUALCOMM Incorporated								
Street Address:	5775 Morehouse Drive								
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>12964487</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12964487				
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Application Number:	12964487								
CORRESPONDENCE DATA									
Fax Number:	(858)658-2502								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	858-845-4265								
Email:	us-docketing@qualcomm.com								
Correspondent Name:	QUALCOMM INCORPORATED								
Address Line 1:	5775 MOREHOUSE DR.								
Address Line 4:	SAN DIEGO, CALIFORNIA 92121								
ATTORNEY DOCKET NUMBER:	102149								
NAME OF SUBMITTER:	Charles E. Eggers								
Total Attachments: 2 source=102149_2011_01_14_ASSN#page1.tif source=102149_2011_01_14_ASSN#page2.tif									

CH \$40.00 12964487

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. **Tom Chin**, a citizen of **the United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, United States of America; and a resident of **San Diego, California, United States of America**;
2. **Guangming Shi**, a citizen of **the United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, United States of America; and a resident of **San Diego, California, United States of America**;
3. **Kuo-Chun Lee**, a citizen of **the United States of America**, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, United States of America; and a resident of **San Diego, California, United States of America**,

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 **ENHANCING PILOT CHANNEL TRANSMISSION IN TD-SCDMA MULTICARRIER SYSTEMS USING SECONDARY CARRIER FREQUENCIES** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **December 9, 2010**, and assigned Serial No. **12/964,487**, including Provisional Application Number **61/366,073**, filed on **July 20, 2010**, and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisionals, continuations and

ASSIGNMENT

continuations-in-part 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.

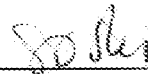
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 4th day of January, 2011.



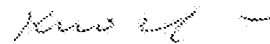
Tom Chin

Done at San Diego, California this 4th day of Jan., 2011.



Guangming Shi

Done at San Diego, California this 4th day of Jan, 2011.



Kuo-Chun Lee