

PATENT ASSIGNMENT

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| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Byoung-Hoon Kim | 02/12/2007 |
| 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: | 13608116 |
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| Total Attachments: 1 source=050579D1_2012-10-01_ASST#page1.tif | |

CH \$40.00 13608116

ASSIGNMENT**TO WHOM IT MAY CONCERN:**

For the sum of One Dollar and other valuable consideration to me in hand paid, receipt of which is hereby acknowledged, be it known that **I, Byoung-Hoon Kim, a citizen of South Korea having a place of residence at 5235 Fiore Terrace C-220, San Diego, California, 9212**, 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: **METHOD AND APPARATUS FOR CHANNEL AND NOISE ESTIMATION** by us devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on October 26, 2006, and assigned Serial No. 11/553,296, including, without limitation, all provisional patent applications, 60/731,423 Filed October 28, 2005, 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 I 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 12th day of February 2007.


BYOUNG-HOON KIM