

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Siddharth Ray	04/23/2009
Sundeep Rangan	04/23/2009
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	QUALCOMM Incorporated
<b>Street Address:</b>	5775 Morehouse Drive
<b>City:</b>	San Diego
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	92121
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	12412340
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(858)658-2502
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	858-658-5568
<b>Email:</b>	llawlor@qualcomm.com
<b>Correspondent Name:</b>	QUALCOMM INCORPORATED
<b>Address Line 1:</b>	5775 MOREHOUSE DR.
<b>Address Line 4:</b>	SAN DIEGO, CALIFORNIA 92121
<b>ATTORNEY DOCKET NUMBER:</b>	072230
<b>NAME OF SUBMITTER:</b>	Leeanne Lawlor
<b>Total Attachments: 2</b> source=072230_Assignment#page1.tif source=072230_Assignment#page2.tif	

CH \$40.00 12412340

## 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. **Siddharth Ray**, a citizen of **India**, having a place of residence at **4104 Sunny Slope Road, Bridgewater, NJ, 08807, US**; and
2. **Sundeep Rangan**, a citizen of **Canada**, having a place of residence at **312 ½ 4<sup>th</sup> Street, Jersey City, NJ, 07302, US**,

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 **METHODS AND APPARATUS FOR REDUCING OR AVOIDING USE OF NON-SHIFT BASED DIVISIONS IN A COMMUNICATIONS DEVICE** by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on **March 26, 2009**, and assigned Application Number **12/412,340**, including, without limitation, all provisional patent applications, including Provisional Application Number **61/041,288**, filed on **April 1, 2008**, and all original and reissue patents granted thereof (in the United States and any foreign county), 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 for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at Bridgewater, New Jersey this 23 day of April, 2009.

  
-----  
**SIDDHARTH RAY**

Done at BRIDGEWATER, New Jersey this 23 day of APRIL, 2009.

  
-----  
**SUNDEEP RANGAN**