

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Ranganathan Krishnan</td> <td>01/09/2003</td> </tr> <tr> <td>Rajiv Vijayan</td> <td>01/09/2003</td> </tr> <tr> <td>Tamer Kadous</td> <td>01/09/2003</td> </tr> </tbody> </table>		Name	Execution Date	Ranganathan Krishnan	01/09/2003	Rajiv Vijayan	01/09/2003	Tamer Kadous	01/09/2003		
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>QUALCOMM Incorporated</td> </tr> <tr> <td>Street Address:</td> <td>5775 Morehouse Drive</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>92121-1714</td> </tr> </table>		Name:	QUALCOMM Incorporated	Street Address:	5775 Morehouse Drive	City:	San Diego	State/Country:	CALIFORNIA	Postal Code:	92121-1714
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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>11418930</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11418930						
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CORRESPONDENCE DATA											
Fax Number: 8586582502 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 8586582389 Email: US-Docketing@Qualcomm.com Correspondent Name: QUALCOMM Incorporated Address Line 1: 5775 Morehouse Drive Address Line 4: San Diego, CALIFORNIA 92121-1714											
ATTORNEY DOCKET NUMBER:	020656C1C1										
NAME OF SUBMITTER:	Judy Bridgwater										
Signature:	/Judy Bridgwater/										
Date:	06/25/2013										

CH \$40.00 11418930

Total Attachments: 4

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PATENT

REEL: 030682 FRAME: 0972

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 **Ranganathan Krishnan**, a citizen of India having a place of residence at **6755 Mira Mesa Blvd, Ste 123, #200, San Diego, California 92121-4311**, **Rajiv Vijayan**, a citizen of India having a place of residence at **9604 Babauta Rd., San Diego, California 92129**, **Tamer Kadous**, a citizen of Egypt having a place of residence at **5385 Toscana Way, #316, San Diego, California 92122**; 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 a **Uplink Pilot And Signaling Transmission 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 **January 10, 2003**, and assigned Serial No. _____

(and we hereby authorize and instruct **QUALCOMM, Incorporated** to hereafter complete this Assignment by inserting the application serial number and filing date of said application in the space provided above when known), 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 San Diego, California this 9 day of Jan, 2003.



Ranganathan Krishnan

Done at San Diego, California this 9th day of JANUARY, 2003.



Rajiv Vijayan

Done at San Diego, California this 9th day of Jan, 2003.


Tamer Kadous