PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Dilip Krishnaswamy	02/24/2010
Hoang V. Nguyen	02/17/2010

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:	12683522

CORRESPONDENCE DATA

Fax Number: (858)658-2502

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 858-845-4265

Email: patent.docketing.us@qualcomm.com
Correspondent Name: QUALCOMM INCORPORATED
Address Line 1: 5775 MOREHOUSE DR.

Address Line 4: SAN DIEGO, CALIFORNIA 92121

ATTORNEY DOCKET NUMBER: 082465

NAME OF SUBMITTER: Gina Golia

Total Attachments: 4

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PATENT S01116261 REEL: 024065 FRAME: 0091

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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, Dilip Krishnaswamy, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California and

2. **Hoang V. Nguyen,** a citizen of **Vietnam**, having a mailing address of 604 E. Clark Street, Apt.#4, Champaign, IL, 61820; and a resident of **Champaign**, **Illinois**;

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 METHOD AND APPARATUS FOR DELAY-CONSTRAINED END-TO-END ENERGY OPTIMIZATION FOR WIRELESS SERVICES by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on January 7th, 2010 and assigned Serial No. 12/683,522, including, without limitation, all provisional patent applications, and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisionals, continuations and 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,

Hoang V. Nguyen

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, Dilip Krishnaswamy, a citizen of the United States of America, having a mailing address of 5775 Morehouse Drive, San Diego, California, 92121, US; and a resident of San Diego, California and
- 2. Hoang V. Nguyen, a citizen of Vietnam, having a mailing address of 604 E. Clark Street, Apt.#4, Champaign, IL., 61820; and a resident of Champaign, Illinois;

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 METHOD DELAY-CONSTRAINED END-TO-END ENERGY AND APPARATUS FOR OPTIMIZATION FOR WIRELESS SERVICES by us devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on January 7th, 2010 and assigned Serial No. 12/683,522, including, without limitation, all provisional patent applications, and all original and reissue patents granted thereof (in the United States and any foreign country), and all divisionals, continuations and 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 the	ereof unto said corporation in keeping with this
Assignment.	
Done at San Diego, California this day	of, 2010.
	Dilip Krishnaswamy
Done at Champaign, Illinois this <u>17</u> day of	F <u>Feb</u> , 2010.
	1/4 Jan 1994 1994
	Hoang V. Nguyen

RECORDED: 03/11/2010