	11-10-2003 US Department of Commerce
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	Attorney Docket No.: 020554
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Resubmission (Non-Recordation) Document ID No.	Change of Name
Correction of PTO Error	
Reel No. Frame No.	Security Agreement
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Conveying Party(ies)	Mark if additional names are attached
NAME	
1 VARAVARJ	Month, Day, Year (MMDDYYYY)
1. J. RODNEY WALTON	10/21/2003
2. MARK S. WALLACE	10/21/2003
3. JOHN W. KETCHUM	10/21/2003
4. STEVEN J. HOWARD	10/21/2003
Receiving Party	Mark if additional names are attached
Name: QUALCOMM Incorporated	
A Delaware Corporation	rehouse Drive 10693419
Address (Street number and name): 5775 More	rehouse Drive 10010411
Address (City, State, Zip Code): San Diego	o, California, 92121-1714
Correspondent Name and Address	
Name: QUALCOMM Incorporated	Telephone Number: (858) 651-4125
Attn: Patent Dept.	Facsimile: (858) 658-2502
Address: 5775 Morehouse Drive	
Address: San Diego, California 92121-1714	
	ached conveyance document including any attachments)
Total number of pages: 3	
	tion Number(s) or Patent Number(s)
	new application, the execution date of the application is: 10/23/2003
Patent Application Number(s):	Patent Number(s):
1.	1.
2.	2.
3.	3.
4. Patent Cooperation Treaty (PCT)	4.
(Enter <u>only if</u> a U.S. Application Number has not	heen assigned)
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Date: <u>10/23/2003</u>	Signature: 1/10 1, NAM
	Signature: P 1/1/2 I VZ VI
Mame: Thien T. Nguyen, Reg. No. 43,835	
Mame: Thien T. Nguyen, Reg. No. 43,835 (858) 651-6137	<u> </u>
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PATENT REEL: 014664 FRAME: 0630

ATTORNEY DOCKET NO.: 020554

ASSIGNMENT

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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; J. RODNEY WALTON, a citizen of the United States of America having a place of residence at 85 HIGHWOODS LANE; CARLISLE, MASSACHUSETTS 01741; MARK S. WALLACE, a citizen of the United States of America having a place of residence at 4 MADEL LANE; BEDFORD, MASSACHUSETTS 01730; JOHN W. KETCHUM, a citizen of the United States of America having a place of residence at 4 MADEL LANE; BEDFORD, MASSACHUSETTS 01730; JOHN W. KETCHUM, a citizen of the United States of America having a place of residence at 37 CANDLEBERRY LANE; HARVARD, MASSACHUSETTS 01451; and STEVEN J. HOWARD, a citizen of the United States of America having a place of residence at 75 HERITAGE AVENUE, ASHLAND, MASSACHUSETTS 01721; 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:

MIMO WLAN SYSTEMS

by us devised and the application for United States Patent therefor filed **HEREWITH** in the United States Patent and Trademark Office, including, without limitation, all provisional patent applications, **including Serial No. 60/421,309 filed October 25, 2002**, 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 we will communicate to said corporation or its representatives all facts known to us respecting said invention,

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[Assignment/Multiple With Application]

PATENT REEL: 014664 FRAME: 0631

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 Carlisle, Massachusetts this <u>21</u> day of <u>2009</u>, 2003.

J. RODNEY WALTON

Done at Bedford, Massachusetts this $2!^{st}$ day of σ_{6} 6 5 2003.

MARK S. WALLACE

Done at Harvard, Massachusetts this 21^{5} day of 2766, 2003. JOHN W. KETCHUM

Done at Ashland, Massachusetts this 21th day of October, 2003.

Steven A Harand

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