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SUBMISSION TYPE:		NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT			
CONVEYING PARTY DATA					
N			ame	Execution Date	
Ismail Lakkis				03/16/2009	
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: 124		12405	5020		02020
CORRESPONDENCE DATA					
Fax Number: (858)658-2502 Correspondence will be sent via US Mail when the fax attempt is unsuccessful. 24					
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:			082841U2		
NAME OF SUBMITTER:			Margaret Freda		
Total Attachments: 1 source=082841U2_2009-03-16_ASST_Signed#page1.tif					

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 I,

Ismail Lakkis, a citizen of the United States, having a place of residence at 10131 Prairie Springs Road, San Diego, California, 92127, United States of America;

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 MULTI-RESOLUTION BEAMFORMING BASED ON CODEBOOKS IN MIMO SYSTEMS by me devised and the application for United States Patent therefore filed in the United States Patent and Trademark Office on March 14, 2009, assigned Application Number ____, including, without limitation, all provisional patent applications, 121405,020 including Provisional Application Number 61/037,139 filed on March 17, 2008, and all original and reissue patents granted thereof (in the United States and any foreign country), 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 I have full right to do so, and agree that I 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 San Diego, California this <u>16</u> day of <u>11arch</u>, 2008. Ismail Lakkis

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PATENT REEL: 022403 FRAME: 0026

RECORDED: 03/16/2009