

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Wael William Diab	08/11/2008
Howard Frazier	09/03/2008
RECEIVING PARTY DATA	
Name:	Broadcom Corporation
Street Address:	5300 California Avenue
City:	Irvine
State/Country:	CALIFORNIA
Postal Code:	92617
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12205670
CORRESPONDENCE DATA	
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Phone:	703-437-8000
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Correspondent Name:	LAW OFFICE OF DUANE S. KOBAYASHI
Address Line 1:	P.O. Box 4160
Address Line 4:	Leesburg, VIRGINIA 20177
ATTORNEY DOCKET NUMBER:	BU7226/BCOM.0610001
NAME OF SUBMITTER:	Duane S. Kobayashi
Total Attachments: 2 source=Diab Assignment#page1.tif source=Frazier Assignment#page1.tif	

OP \$40.00 12205670

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PATENT
REEL: 021491 FRAME: 0064

ASSIGNMENT

Case No: BU7226/BCOM.0610001

Serial No.:

Inventors: Wael William Diab
Howard Frazier

Filing Date:

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, the undersigned hereby assigns to Broadcom Corporation, incorporated under the laws of the state of California, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled: **"SYSTEM AND METHOD FOR CARRIER DEFERRAL FOR FULL DUPLEX ENERGY EFFICIENT ETHERNET PHYS"** and identified as File No. BU7226/BCOM.0610001 in the Law Office of Duane S. Kobayashi, and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any continuation, continuation-in-part, divisional, re-examination, reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

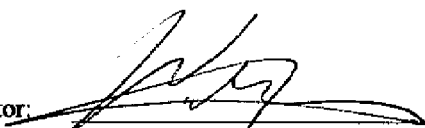
The undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

The undersigned warrants himself/herself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations, the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all continuation, continuation-in-part, divisional, re-examination, extension, and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue, re-examination, or extension of any Letters Patent that may be granted upon said application, and any and all applications and other document for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations each of the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence. And performing any and all other acts necessary to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

First Inventor:


Wael William Diab

Date:

8/11/2008

Second Inventor:

Howard Frazier

Date:

ASSIGNMENT

Case No: BU7226/BCOM.0610001

Serial No.:

Inventors: Wael William Diab
Howard Frazier

Filing Date:

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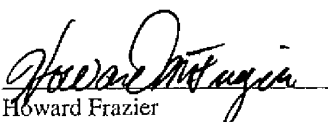
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IN WITNESS WHEREOF, executed by the undersigned inventor(s) on the date opposite his/her name.

First Inventor: _____ Date: _____
Wael William Diab

Second Inventor:  _____ Date: 3-Sept-2008
Howard Frazier