

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Wael William Diab</td> <td>10/29/2010</td> </tr> <tr> <td>Jeyhan Karaoguz</td> <td>12/13/2010</td> </tr> <tr> <td>Xuemin Chen</td> <td>09/20/2010</td> </tr> <tr> <td>David Garrett</td> <td>09/23/2010</td> </tr> <tr> <td>David Lundgren</td> <td>09/21/2010</td> </tr> <tr> <td>Rich Prodan</td> <td>12/23/2010</td> </tr> </tbody> </table>		Name	Execution Date	Wael William Diab	10/29/2010	Jeyhan Karaoguz	12/13/2010	Xuemin Chen	09/20/2010	David Garrett	09/23/2010	David Lundgren	09/21/2010	Rich Prodan	12/23/2010
Name	Execution Date														
Wael William Diab	10/29/2010														
Jeyhan Karaoguz	12/13/2010														
Xuemin Chen	09/20/2010														
David Garrett	09/23/2010														
David Lundgren	09/21/2010														
Rich Prodan	12/23/2010														
RECEIVING PARTY DATA															
<table border="1"> <tr> <td>Name:</td> <td>Broadcom Corporation</td> </tr> <tr> <td>Street Address:</td> <td>5300 California Avenue</td> </tr> <tr> <td>City:</td> <td>Irvin</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92617-3038</td> </tr> </table>		Name:	Broadcom Corporation	Street Address:	5300 California Avenue	City:	Irvin	State/Country:	CALIFORNIA	Postal Code:	92617-3038				
Name:	Broadcom Corporation														
Street Address:	5300 California Avenue														
City:	Irvin														
State/Country:	CALIFORNIA														
Postal Code:	92617-3038														
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>12982010</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12982010										
Property Type	Number														
Application Number:	12982010														
CORRESPONDENCE DATA															
<p>Fax Number: (770)951-0933          Phone: 770-933-9500          Email: julie.campbell@tkhr.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Thomas, Kayden, Horstemeyer &amp; Risley LLP          Address Line 1: 400 Interstate North Parkway          Address Line 2: Suite 1500          Address Line 4: Atlanta, GEORGIA 30339</p>															
ATTORNEY DOCKET NUMBER:	050229-2780														

OP \$40.00 12982010

NAME OF SUBMITTER:

Scott A. Horstemeyer

**Total Attachments: 7**

source=01520664#page1.tif

source=01520664#page2.tif

source=01520664#page3.tif

source=01520664#page4.tif

source=01520664#page5.tif

source=01520664#page6.tif

source=01520664#page7.tif

## ASSIGNMENT

File No.: 23412US02

Serial No.: 12/982,010

Inventors: Wael Diab  
Jeyhan Karaoguz  
Xuemin Chen  
David Garrett  
David Lundgren  
Rich Prodan

Filing Date: 12/30/2010

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, each of 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: "METHOD AND SYSTEM FOR UTILIZING A GATEWAY TO ENABLE PEER-TO-PEER COMMUNICATIONS IN SERVICE PROVIDER NETWORKS" and identified as File No. 23412US02, in the offices of McANDREWS, HELD & MALLOY, LTD., and in a provisional application filed in the United States Patent and Trademark Office as Serial No. 61/351,696 on June 4, 2010, 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.

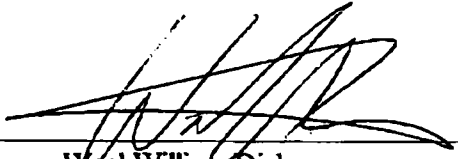
Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee. Each of the undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known. Each of 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, each of 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


Attorney Docket No. 23412US02

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

WITNESS my hand this 29<sup>th</sup> day of October, 2010.

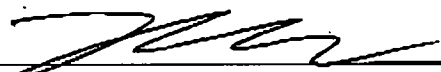
  
Wael William Diab

WITNESS my hand this 13<sup>th</sup> day of December, 2010.

  
\_\_\_\_\_  
Jeyhan Karaoguz

Attorney Docket No. 23412US02

WITNESS my hand this 20th day of Sept., 2010.

  
\_\_\_\_\_  
Xuemin Chen

WITNESS my hand this 23 day of Sept, 2010.

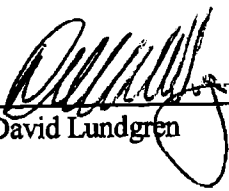
A handwritten signature in black ink, appearing to read "D. W. Garrett", written over a horizontal line.

David Garrett

A


Attorney Docket No. 23412US02

WITNESS my hand this 21 day of September, 2010.

  
\_\_\_\_\_  
David Lundgren



WITNESS my hand this 23 day of December, 2010.

  
Rich Prodan