

## 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>William Brad Matthews</td> <td>03/11/2013</td> </tr> <tr> <td>Bruce Hui Kwan</td> <td>03/12/2013</td> </tr> </tbody> </table>		Name	Execution Date	William Brad Matthews	03/11/2013	Bruce Hui Kwan	03/12/2013
Name	Execution Date						
William Brad Matthews	03/11/2013						
Bruce Hui Kwan	03/12/2013						
RECEIVING PARTY DATA							
Name:	Broadcom Corporation						
Street Address:	5300 California Avenue						
City:	Irvine						
State/Country:	CALIFORNIA						
Postal Code:	92617						
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>13798481</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13798481		
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Application Number:	13798481						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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NAME OF SUBMITTER:	Jason M. Perilla						
Signature:	/Jason M. Perilla/						
Date:	05/10/2013						
Total Attachments: 2 source=01804200#page1.tif source=01804200#page2.tif							

OP \$40.00 13798481

**ASSIGNMENT OF UTILITY PATENT APPLICATION**

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "**ADAPTIVE BUFFER ALLOCATION MANAGEMENT**," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on March 13, 2013, and assigned Application Number 13/798,481. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "ADAPTIVE BUFFER ALLOCATION MANAGEMENT", filed with the USPTO on January 25, 2013, and assigned Application Number 61/756,866.

WHEREAS, **BROADCOM CORPORATION** having a place of business at 5300 California Avenue, Irvine, California 92617-3038, hereinafter referred to as Assignee, is desirous of acquiring ASSIGNOR'S interest in and to said Invention(s), said utility application, said provisional application (if any), and/or any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, Assignor has sold, assigned and transferred and does hereby sell, assign and transfer unto Assignee, and Assignee's successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said Invention(s), said utility application, and said provisional application (if any), and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said Inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said Invention(s), said utility application, and said provisional application (if any) for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

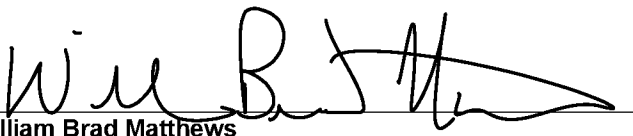
Assignor authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application (if any) and to claim the aforesaid benefit of the right of priority.

Assignor requests that any and all patents for said Inventions be issued to Assignee in the U.S. and to Assignee in all countries foreign to the United States, or to such nominee as Assignee may designate.

Assignor covenants and agrees that, when requested, Assignor shall, without charge to Assignee but at Assignee's expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said Invention(s), and for the defense and protection thereof if challenged in the court of law.

Assignor authorizes Assignee or its agents to insert, on Assignor's behalf, the filing date and/or Application Number above pertaining to the utility application and/or the provisional application (if any), if not known as of the date of execution of this document.

  
\_\_\_\_\_  
William Brad Matthews

80 Descanso Dr.  
Apt. 1101  
San Jose, CA 95134

3/11/2013  
\_\_\_\_\_  
Date

**ASSIGNMENT OF UTILITY PATENT APPLICATION**

WHEREAS, the below undersigned inventor, hereinafter referred to as ASSIGNOR, has invented certain new and useful improvements ("Invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled "**ADAPTIVE BUFFER ALLOCATION MANAGEMENT**," which was executed on even date herewith, and/or filed with the United States Patent and Trademark Office (USPTO) on March 13, 2013, and assigned Application Number 13/798,481. In addition, if applicable, the Invention(s) are further described in U.S. provisional application entitled "ADAPTIVE BUFFER ALLOCATION MANAGEMENT", filed with the USPTO on January 25, 2013, and assigned Application Number 61/756,866.

WHEREAS, **BROADCOM CORPORATION** having a place of business at 5300 California Avenue, Irvine, California 92617-3038, hereinafter referred to as Assignee, is desirous of acquiring ASSIGNOR'S interest in and to said Invention(s), said utility application, said provisional application (if any), and/or any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, Assignor has sold, assigned and transferred and does hereby sell, assign and transfer unto Assignee, and Assignee's successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said Invention(s), said utility application, and said provisional application (if any), and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said Inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said Invention(s), said utility application, and said provisional application (if any) for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

Assignor authorizes Assignee to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

Assignor hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of Assignee to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application (if any) and to claim the aforesaid benefit of the right of priority.

Assignor requests that any and all patents for said Inventions be issued to Assignee in the U.S. and to Assignee in all countries foreign to the United States, or to such nominee as Assignee may designate.

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Assignor authorizes Assignee or its agents to insert, on Assignor's behalf, the filing date and/or Application Number above pertaining to the utility application and/or the provisional application (if any), if not known as of the date of execution of this document.

  
\_\_\_\_\_  
Bruce Hui Kwan  
1348 Bobwhite Ave.  
Sunnyvale, CA 94087

3/12/13  
\_\_\_\_\_  
Date