

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>Mark Gonikberg</td> <td>12/28/2011</td> </tr> <tr> <td>Prasanna Desai</td> <td>01/02/2012</td> </tr> <tr> <td>Brima B. Ibrahim</td> <td>12/29/2011</td> </tr> </tbody> </table>		Name	Execution Date	Mark Gonikberg	12/28/2011	Prasanna Desai	01/02/2012	Brima B. Ibrahim	12/29/2011
Name	Execution Date								
Mark Gonikberg	12/28/2011								
Prasanna Desai	01/02/2012								
Brima B. Ibrahim	12/29/2011								
RECEIVING PARTY DATA									
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City:	IRVINE								
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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>13539251</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13539251				
Property Type	Number								
Application Number:	13539251								
CORRESPONDENCE DATA									
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ATTORNEY DOCKET NUMBER:	BP6159C3								
NAME OF SUBMITTER:	Bruce E. Stuckman, Ph.D.								
Total Attachments: 4 source=BP6159C3 ASSMT#page1.tif source=BP6159C3 ASSMT#page2.tif source=BP6159C3 ASSMT#page3.tif source=BP6159C3 ASSMT#page4.tif									

OP \$40.00 13539251

Utility Patent Appl. Serial No.: 13/305,233Utility Patent Appl. Filing Date: November 28, 2011

Patent No.: _____

Patent Issue Date: _____

Country: _____

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignors", have invented a new and useful invention entitled:

COOPERATIVE TRANSCIVING BETWEEN WIRELESS INTERFACE DEVICES OF A HOST DEVICE WITH SHARED MODULES

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith or that was filed with the United States Patent and Trademark Office on the 28th day of November, 2011. The Assignors believe himself/herself/themselves to be the original inventor(s) of the invention disclosed and claimed in the application for Letters Patent.

WHEREAS, The entity identified immediately below having a principal office and place of business as identified, hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

Broadcom Corporation, a California Corporation
5300 California Avenue
Irvine, CA 92617

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, any and all provisional patent applications from which the application claims priority, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

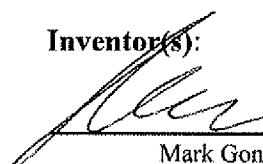
And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein

identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of the United States Patent and Trademark Office is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below. The undersigned hereby authorizes and requests the attorneys and/or agents of record in the application above identified, and in, to and under Letters Patent which may be obtained for said invention, to insert in this assignment the filing date and serial number of said application (and/or issue date and patent number of said corresponding Letters Patent) when officially known, if applicable.

Inventor(s):


 _____ Mark Gonikberg Date	12/28/2011 _____ Prasanna Desai Date
_____ Brima B. Ibrahim Date	_____ _____ Date Date
_____ _____ Date Date	_____ _____ Date Date

identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

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Inventor(s):


_____	_____		Jan. 2, 2012
Mark Gonikberg	Date	Prasanna Desai	Date
_____	_____	_____	_____
Brina B. Ibrahim	Date		Date
_____	_____	_____	_____
	Date		Date
_____	_____	_____	_____
	Date		Date
_____	_____	_____	_____
	Date		Date

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Inventor(s):

_____ Mark Gonikberg  Brima B. Ibrahim	_____ Date 12/29/2011 Date	_____ Prasanna Desai	_____ Date Date
_____	_____ Date	_____	_____ Date
_____	_____ Date	_____	_____ Date
_____	_____ Date	_____	_____ Date