

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Xuemin Chen</td> <td>10/15/2012</td> </tr> <tr> <td>Rajesh Shankarrao Mamidwar</td> <td>10/16/2012</td> </tr> <tr> <td>Wade Wan</td> <td>10/22/2012</td> </tr> <tr> <td>Steve Krafft</td> <td>10/24/2012</td> </tr> <tr> <td>Guangcai Zhou</td> <td>10/16/2012</td> </tr> </tbody> </table>		Name	Execution Date	Xuemin Chen	10/15/2012	Rajesh Shankarrao Mamidwar	10/16/2012	Wade Wan	10/22/2012	Steve Krafft	10/24/2012	Guangcai Zhou	10/16/2012
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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>Irvine</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92617</td> </tr> </table>		Name:	Broadcom Corporation	Street Address:	5300 California Avenue	City:	Irvine	State/Country:	CALIFORNIA	Postal Code:	92617		
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Email: usassignments@brinkshofer.com, mmmarsh@brinkshofer.com</p> <p>Correspondent Name: Brinks Hofer Gilson & Lione</p> <p>Address Line 1: 455 N. Cityfront Plaza Drive</p> <p>Address Line 2: Suite 3600</p> <p>Address Line 4: Chicago, ILLINOIS 60611</p>													
ATTORNEY DOCKET NUMBER:	14528.00552												
NAME OF SUBMITTER:	Lawrence M. Chen												
Total Attachments: 6													

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ASSIGNMENT

THIS ASSIGNMENT, by Xuemin Chen, residing at PMB 65, P.O. Box 5000, Rancho Santa Fe, California 92067, Rajesh Shankarrao Mamidwar, residing at 15246 Falcon Crest Court, San Diego, California 92127, Wade Wan, residing at 6248 East Cedarbrooks Road, Orange, California 92867, Steve Krafft, residing at 203 Chico Avenue, Santa Cruz, California 95060, and Guangcai Zhou, residing at 29403 Promontory Place, Agoura Hills, California 91031 (the "Assignors"), witnesseth:

WHEREAS, Assignors have made the invention(s) described in the United States patent application under the attorney docket number noted above, titled:

CROSS LAYER COORDINATED CHANNEL BONDING

filed on November 9, 2012 and assigned Serial No. 13/673,014; and

WHEREAS, Broadcom Corporation, a corporation formed under the laws of California, whose mailing address is 5300 California Avenue, Irvine, CA 92617 (the "Assignee"), desires to acquire the entire right, title and interest in and to said inventions, said applications for Letters Patent, all corresponding patent applications, and in and to any Letters Patent or Patents obtained therefore or thereon in the United States or in any other country;

NOW, THEREFORE, for One Dollar (\$1.00) and other good, bargained-for, valuable and legally sufficient consideration for each Assignor, the receipt of which is hereby acknowledged by all Assignors, said Assignors have sold, assigned, transferred and set over, and as demonstrated by this Assignment do sell, assign, transfer and set over unto said Assignee: (1) the entire right, title and interest in and to the above-noted inventions, application(s) for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor or thereon, and in and to any and all divisions, continuations, continuations-in-part of any such application, provisional applications, and non-provisional applications that claim the benefit of the above-noted application(s), and reissues, reexaminations, renewals and extensions of said Letters Patent or Patents, as well as utility model applications, design applications, and all other forms of intellectual property protection based on or taking the benefit of the above-noted application(s); (2) the full right to claim for any such applications all benefits and priority rights under any applicable convention, treaty or legislation; and (3) the right of Assignors to sue and obtain relief, including damages, profits and an injunction, for any infringement occurring before or after issuance of said Letters Patent or Patents, the same to be held and enjoyed for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors had this Assignment not been made.

For the above-recited consideration, each of said Assignors hereby covenants, warrants and agrees that, at the time of execution and delivery of this Assignment, (s)he is a lawful owner of the entire right, title and interest in and to said inventions and the applications for Letters Patent above-mentioned, and that the same are unencumbered and that the Assignor has good and full right and lawful authority to sell and convey the same in the manner herein set forth.

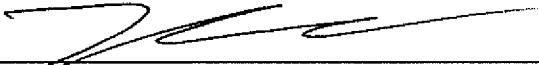
For the above-recited consideration, each of said Assignors hereby covenants and agrees to execute and deliver to the Assignee, its successors, legal representatives or assigns, all papers and documents that may be required to carry out the terms of this Assignment, and take all lawful oaths, provide testimony, and do all lawful acts necessary or required to be done to

reasonably assist said Assignee, its successors, legal representatives or assigns in any interference, litigation or other proceeding in any country concerning or in connection with any inventions, patent applications, Letters Patent or Patents assigned hereunder; or for the prosecution, procurement, maintenance, enforcement and defense of Letters Patent or Patents for said inventions and patent applications, or to carry out the terms of this Assignment, or vest in the Assignee, its successors and assigns, exclusive title in and to all inventions, patent applications, Letters Patent or Patents assigned hereunder, without further compensation from said Assignee, its successors, legal representatives or assigns, except for reasonable costs and expenses of the Assignor incident to such assistance and approved in writing by said Assignee, its successors, legal representatives or assigns before any such costs or expenses are incurred.

Each Assignor grants Assignee a limited power of attorney to execute, or have executed, for or on behalf of that Assignor, whatever papers are required to file or prosecute patent applications and obtain U.S. and foreign patent rights for the invention(s) assigned herein, with the understanding and agreement that the exercise of this limited power of attorney by Assignee or its attorneys or representatives gives no Assignor any rights with respect to anything assigned hereunder, nor establishes any attorney-client relationship between any Assignor and Assignee or between any Assignor and any attorney working on behalf of Assignee. Each Assignor also agrees that there is no actual or implied attorney-client relationship between Assignor and any attorney working on behalf of Assignee, its affiliates, subsidiaries or parent companies, by virtue of the preparation and prosecution of any U.S. or foreign applications for patents hereunder, any employment or consulting relationship between that Assignor and Assignee or any other company, or by virtue of this Assignment or any term thereof. Each Assignor hereby authorizes and requests the attorneys for Assignee to enter the patent application serial number and filing date information into this Assignment document, when that information is known.

Assignors hereby authorize and request the Commissioner of Patents to issue said Letters Patent or Patents of the United States to Broadcom Corporation as the Assignee of said inventions, patent applications, the Letters Patent or Patents to be issued thereon for the sole use of Broadcom Corporation, its successors and assigns in accordance with the terms of this Assignment

IN TESTIMONY WHEREOF, the Assignors have executed this Assignment.

<u>Oct. 15, 2012</u>	
Date	Xuemin Chen
<u> </u>	<u> </u>
Date	Rajesh Mamidwar
<u> </u>	<u> </u>
Date	Wade Wan
<u> </u>	<u> </u>
Date	Steve Krafft
<u> </u>	<u> </u>
Date	Guangcai Zhou

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Each Assignor grants Assignee a limited power of attorney to execute, or have executed, for or on behalf of that Assignor, whatever papers are required to file or prosecute patent applications and obtain U.S. and foreign patent rights for the invention(s) assigned herein, with the understanding and agreement that the exercise of this limited power of attorney by Assignee or its attorneys or representatives gives no Assignor any rights with respect to anything assigned hereunder, nor establishes any attorney-client relationship between any Assignor and Assignee or between any Assignor and any attorney working on behalf of Assignee. Each Assignor also agrees that there is no actual or implied attorney-client relationship between Assignor and any attorney working on behalf of Assignee, its affiliates, subsidiaries or parent companies, by virtue of the preparation and prosecution of any U.S. or foreign applications for patents hereunder, any employment or consulting relationship between that Assignor and Assignee or any other company, or by virtue of this Assignment or any term thereof. Each Assignor hereby authorizes and requests the attorneys for Assignee to enter the patent application serial number and filing date information into this Assignment document, when that information is known.

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10/16/12	<i>Rajesh Shankarrao Mamidwar</i>
Date	Rajesh Shankarrao Mamidwar
Date	Wade Wan
Date	Steve Krafft
Date	Guangcai Zhou

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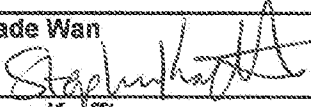
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_____ Date	_____ Rajesh Shankarrao Mamidwar
10/22/2012 Date	_____ Wade Wan
_____ Date	_____ Steve Krafft
_____ Date	_____ Guangcai Zhou

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Date	Wade Wan
10/29/12	
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<u>10/16/12</u> Date	<u>Guangcai Zhou</u>