

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE:   | NEW ASSIGNMENT         |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
|--|------------------------|---------------|----------------------|---------------------|------------------------|-----------------|------------|----------------|------------|-------------------|------------|---------------|------------|----------------|------------|
| NATURE OF CONVEYANCE:  | ASSIGNMENT             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <b>CONVEYING PARTY DATA</b>  |                        |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Richard Prodan</td> <td>12/23/2010</td> </tr> <tr> <td>Jeyhan Karaoguz</td> <td>12/13/2010</td> </tr> <tr> <td>Xuemin Chen</td> <td>12/23/2010</td> </tr> <tr> <td>Wael William Diab</td> <td>12/30/2010</td> </tr> <tr> <td>David Garrett</td> <td>09/23/2010</td> </tr> <tr> <td>David Lundgren</td> <td>12/08/2010</td> </tr> </tbody> </table> |                        | Name          | Execution Date       | Richard Prodan      | 12/23/2010             | Jeyhan Karaoguz | 12/13/2010 | Xuemin Chen    | 12/23/2010 | Wael William Diab | 12/30/2010 | David Garrett | 09/23/2010 | David Lundgren | 12/08/2010 |
| Name   | Execution Date         |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Richard Prodan   | 12/23/2010             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Jeyhan Karaoguz  | 12/13/2010             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Xuemin Chen  | 12/23/2010             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Wael William Diab  | 12/30/2010             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| David Garrett  | 09/23/2010             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| David Lundgren   | 12/08/2010             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <b>RECEIVING PARTY DATA</b>  |                        |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">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      |               |            |                |            |
| Name:  | Broadcom Corporation   |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Street Address:  | 5300 California Avenue |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| City:  | Irvine                 |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| State/Country:   | CALIFORNIA             |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Postal Code:   | 92617                  |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <b>PROPERTY NUMBERS Total: 1</b>   |                        |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12982196</td> </tr> </tbody> </table>  |                        | Property Type | Number               | Application Number: | 12982196               |                 |            |                |            |                   |            |               |            |                |            |
| Property Type  | Number                 |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| Application Number:  | 12982196               |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <b>CORRESPONDENCE DATA</b>   |                        |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| <p>Fax Number: (312)775-8100</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312.775.8000</p> <p>Email: mhmpto@mcandrews-ip.com</p> <p>Correspondent Name: Francisco Castro</p> <p>Address Line 1: McAndrews, 500 W. Madison St., 34th Fl</p> <p>Address Line 4: Chicago, ILLINOIS 60661</p>   |                        |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| ATTORNEY DOCKET NUMBER:  | 23430US02_BU21968      |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |
| NAME OF SUBMITTER:   | Francisco Castro       |               |                      |                     |                        |                 |            |                |            |                   |            |               |            |                |            |

CH \$40.00 12982196

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**PATENT**  
REEL: 025772 FRAME: 0153

**Total Attachments: 7**

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## ASSIGNMENT

Case No.: 23430US02

Serial No.: 12/982,196

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

Filing Date: December 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 OPTIMIZING COMMUNICATION IN A HOME NETWORK VIA A GATEWAY" and identified as File No. 23430US02, 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, 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.

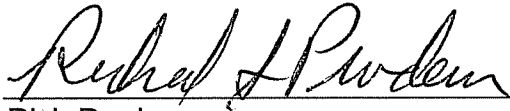
For said considerations, each of the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all continuation, continuation-in-part, divisional, re-examination, extension, and substitute applications for said invention or improvements, 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 assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its

**PATENT**

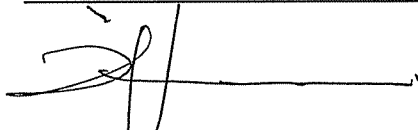
**REEL: 025772 FRAME: 0155**

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 23 day of December, 2010.

  
Rich Prodan

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

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

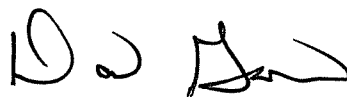
WITNESS my hand this 23<sup>rd</sup> day of December, 2010.

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

WITNESS my hand this 30<sup>th</sup> day of December, 2010.

  
Wael William Diab

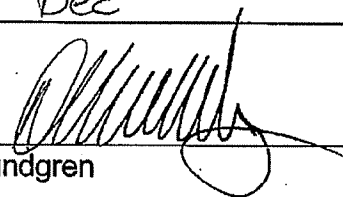
WITNESS my hand this 23 day of Sept, 2010.

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

David Garrett



WITNESS my hand this 8 day of Dec, 2010.

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