

PATENT ASSIGNMENT

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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>Robert Gustav LORENZ</td> <td>04/16/2012</td> </tr> <tr> <td>Bertrand M. HOCHWALD</td> <td>04/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Robert Gustav LORENZ	04/16/2012	Bertrand M. HOCHWALD	04/17/2012
Name	Execution Date						
Robert Gustav LORENZ	04/16/2012						
Bertrand M. HOCHWALD	04/17/2012						
RECEIVING PARTY DATA							
Name:	Broadcom Corporation						
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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>13023534</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13023534		
Property Type	Number						
Application Number:	13023534						
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NAME OF SUBMITTER:	Robert Sokohl						
<p>Total Attachments: 4 source=2875.7190002 EXECUTED ASSIGNMENT#page1.tif source=2875.7190002 EXECUTED ASSIGNMENT#page2.tif source=2875.7190002 EXECUTED ASSIGNMENT#page3.tif source=2875.7190002 EXECUTED ASSIGNMENT#page4.tif</p>							

OP \$40.00 13023534

Assignment of rights for patent application entitled:
 "METHOD AND SYSTEM OF BEAMFORMING A BROADBAND SIGNAL
 THROUGH A MULTIPORT NETWORK"

Docket No:	23716US02	Serial No:	13/023,534
Inventors:	Robert Gustav Lorenz Bertrand M. Hochwald	Filed on:	February 8, 2011

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 OF BEAMFORMING A BROADBAND SIGNAL THROUGH A MULTIPORT NETWORK" and identified as File No. 23716US02, 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. 61/302,214 on February 8, 2010, and Serial No. 12/689,058 on January 18, 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.

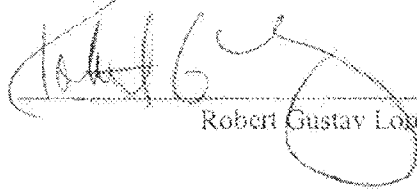
For said considerations, each of the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all continuation, continuation-in-part, divisional, re-examination, extension, and substitute applications for said invention or improvements,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

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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.

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THROUGH A MULTI-PORT NETWORK"

WITNESS my hand this 16th day of April, 2012



Robert Gustav Lorenz

Assignment of rights for patent application entitled:
"METHOD AND SYSTEM OF BEAMFORMING A BROADBAND SIGNAL
THROUGH A MULTIPOINT NETWORK"

WITNESS my hand this 17 day of APRIL, 2012



Bernhard M. Hochwald