

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| | |
|--|------------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| Young Joon Shin | 03/18/2008 |
| RECEIVING PARTY DATA | |
| Name: | Broadcom Corporation |
| Street Address: | 5300 California Avenue |
| City: | Irvine |
| State/Country: | CALIFORNIA |
| Postal Code: | 92617-3038 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 12077894 |
| CORRESPONDENCE DATA | |
| Fax Number: | (949)282-1002 |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | |
| Phone: | 9492821000 |
| Email: | llam@farjami.com |
| Correspondent Name: | Michael Farjami |
| Address Line 1: | 26522 La Alameda Avenue, Suite 360 |
| Address Line 4: | Mission Viejo, CALIFORNIA 92691 |
| ATTORNEY DOCKET NUMBER: | 0250172 |
| NAME OF SUBMITTER: | Michael Farjami |
| Total Attachments: 2 | |
| source=0250172 Assignment for 12-077,894#page1.tif | |
| source=0250172 Assignment for 12-077,894#page2.tif | |

OP \$40.00 12077894

ASSIGNMENT

WHEREAS, I/WE:

| INVENTOR NAME | INVENTOR RESIDENCE ADDRESS |
|-----------------|---------------------------------|
| Young Joon Shin | 16 Bristlecone Irvine, CA 92620 |

have invented certain new and useful improvements disclosed in an application for United States Letters Patent titled "PHASE LOCKED LOOP" and identified by Docket No. 0250172 in the offices of FARJAMI & FARJAMI LLP, and

Filed in the USPTO on March 21, 2008, Serial No. 12/077,894.

AND WHEREAS BROADCOM CORPORATION a California corporation (hereinafter, together with any successors, legal representatives and assigns thereof, called "Assignee"), wants to acquire the entire right, title, and interest in and to said improvements and application:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I/WE have sold, assigned, transferred and set over, and do hereby sell, assign, transfer and set over to Assignee the entire right, title, and interest in and to said improvements, and said application and all divisions, substitutions, continuations and continuations-in-part thereof, and all United States Letters Patents which may be granted thereon and all reissues and extensions thereof, and all priority rights under the International Convention for the Protection of Industrial Property for every member country, and all applications for patents (including related rights such as utility-model registrations, inventor(s) certificates, and the like), heretofore or hereafter filed for said improvements in any foreign countries, and all patents (including all extensions, renewals, and reissues thereof) granted for said improvements in any foreign countries; and I/WE hereby authorize and request the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to Assignee in accordance with the terms of this assignment.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patents to Assignee.

Each of the undersigned hereby authorizes 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 full right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned, and will not execute any agreement in conflict herewith;

AND I/WE HEREBY further covenant and agree that I/WE will communicate to Assignee any facts known to me/us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, continuations-in-part, re-examination, extension, substitute and reissue applications, make all rightful oaths, and generally do everything possible to aid Assignee to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand this 18 day of March, 2008


YOUNG JOON SHIN