

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | |
|--|--|---------------|----------------|---------------------|------------|--------------|------------|-----------------|------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Tian-Min Liu</td> <td>11/03/1999</td> </tr> <tr> <td>Loke Kun Tan</td> <td>11/03/1999</td> </tr> <tr> <td>Steven T. Jaffe</td> <td>11/03/1999</td> </tr> </tbody> </table> | | Name | Execution Date | Tian-Min Liu | 11/03/1999 | Loke Kun Tan | 11/03/1999 | Steven T. Jaffe | 11/03/1999 |
| Name | Execution Date | | | | | | | | |
| Tian-Min Liu | 11/03/1999 | | | | | | | | |
| Loke Kun Tan | 11/03/1999 | | | | | | | | |
| Steven T. Jaffe | 11/03/1999 | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | |
| Name: | Broadcom Corporation | | | | | | | | |
| Street Address: | 16215 Alton Parkway | | | | | | | | |
| City: | Irvine | | | | | | | | |
| State/Country: | CALIFORNIA | | | | | | | | |
| Postal Code: | 92618 | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | |
| <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>10895879</td> </tr> </tbody> </table> | | Property Type | Number | Application Number: | 10895879 | | | | |
| Property Type | Number | | | | | | | | |
| Application Number: | 10895879 | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | |
| Fax Number: | (202)371-2540 | | | | | | | | |
| <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | |
| Phone: | 2023712600 | | | | | | | | |
| Email: | jasong@skgf.com | | | | | | | | |
| Correspondent Name: | Sterne, Kessler, Goldstein & Fox PLLC | | | | | | | | |
| Address Line 1: | 1100 New York Avenue, NW | | | | | | | | |
| Address Line 4: | Washington, DISTRICT OF COLUMBIA 20005 | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 2875.016000J | | | | | | | | |
| NAME OF SUBMITTER: | Robert Sokohl | | | | | | | | |

OP \$40.00 10895879

Total Attachments: 3
 source=2875_016000J-assignment#page1.tif
 source=2875_016000J-assignment#page2.tif

ASSIGNMENT

WHEREAS, WE, Tian-Min Liu, Loke Kun Tan, and Steven T. Jaffe, residing at 12 Pacific Crest, Laguna Niguel, California 92677; 24412 Rue De Monet, Laguna Niguel, California 92677; and 21 Sunlight, Irvine, California 92612, respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled **IMPROVED EQUALIZATION AND DECISION-DIRECTED LOOPS WITH TRELIS DEMODULATION IN HIGH DEFINITION TV, Application No. 09/433,733, filed November 3, 1999 (Docket No. 33877);**

AND WHEREAS BROADCOM CORPORATION, a California corporation, having a place of business at 16215 Alton Parkway, Irvine, California 92618 (hereafter, together with any successors, legal representatives or assigns thereof, called "ASSIGNEE") wants to acquire the entire right, title and interest in and to said improvements and application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, 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 and continuations thereof, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions thereof, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating 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 continuations, divisions, extensions, renewals, substitutes, and reissues thereof) granted for said improvements in any foreign countries; and 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;

AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

AND WE HEREBY further covenant and agree that we will communicate to ASSIGNEE any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, 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.

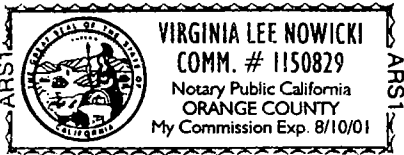
IN TESTIMONY WHEREOF, I hereunto set my hand this 3 day of November, 19 99.

Tian-Min Liu

STATE OF California)
COUNTY OF orange)

On November 3, 1999, before me Virginia Lee Nowicki, Notary Public, personally appeared Tian-Min Liu personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature of Notary

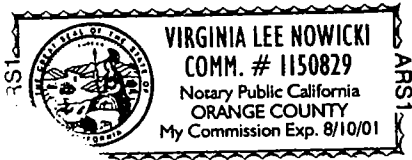
IN TESTIMONY WHEREOF, I hereunto set my hand this 3 day of November, 19 99

Loke Kun Tan

STATE OF California)
COUNTY OF orange)

On November 3, 1999, before me Virginia Lee Nowicki, Notary Public, personally appeared Loke Kun Tan personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

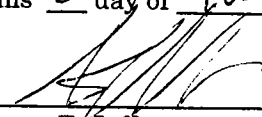
WITNESS my hand and official seal.

Signature of Notary

ASSIGNMENT
Docket No. 33877/JWE/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 3 day of November, 1999.



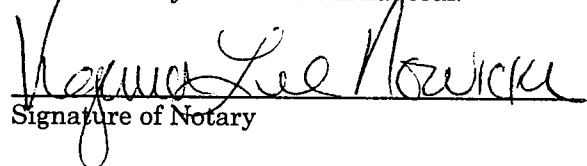
Steven T. Jaffe

STATE OF California)
COUNTY OF Orange)

On November 3, 1999, before me Virginia Lee Nowicki, Notary Public, personally appeared Steven T. Jaffe personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.



Signature of Notary

JWE/mg
MG IRV1030986.1-* -11/2/99 3:19 PM