

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT3020819

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|---|------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| ALEXANDER G. MACINNIS | 02/24/2000 |
| CHENGFUH JEFFREY TANG | 02/24/2000 |
| XIAODONG XIE | 02/24/2000 |
| JAMES T. PATTERSON | 02/24/2000 |
| GREG A. KRANAWETTER | 02/24/2000 |
| RECEIVING PARTY DATA | |
| Name: | BROADCOM CORPORATION |
| Street Address: | 16215 ALTON PARKWAY |
| City: | IRVINE |
| State/Country: | CALIFORNIA |
| Postal Code: | 92618-3616 |
| PROPERTY NUMBERS Total: 3 | |
| Property Type | Number |
| Application Number: | 10322059 |
| Application Number: | 09712736 |
| Application Number: | 10762975 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)672-5399 |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> | |
| Phone: | 2026725300 |
| Email: | apatrick@foley.com |
| Correspondent Name: | CHRISTOPHER J. MCKENNA |
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| Address Line 2: | FOLEY & LARDNER LLP |
| Address Line 4: | WASHINGTON, D.C. 20007 |
| ATTORNEY DOCKET NUMBER: | 106861-0259, 0260, 0495 |
| NAME OF SUBMITTER: | KARLETT ROBERTS |
| SIGNATURE: | /Karlett Roberts/ |
| DATE SIGNED: | 09/12/2014 |

PATENT

Total Attachments: 4

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ASSIGNMENT

WHEREAS, WE, Alexander G. MacInnis, Chengfuh Jeffrey Tang, Xiaodong Xie James T. Patterson, and Greg A. Kranawetter, residing at 1023 Los Altos Avenue, Los Altos, California 94022, 19775 Seagull Court, Saratoga, California 95070, 6436 Wellmeadow Court, San Jose, California 95120, 12790 Lika Court, Saratoga, California 95070, 6100 Yeadon Way, San Jose, California 95119, respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled **GRAPHICS DISPLAY SYSTEM WITH UNIFIED MEMORY ARCHITECTURE**, filed November 9, 1999, Serial Number 09/437,209.

AND WHEREAS BROADCOM CORPORATION, a California corporation, having a place of business at 16215 Alton Parkway, Irvine, California 92618-3616 (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;

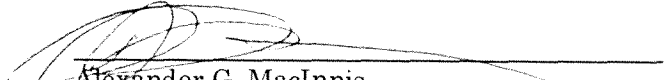
AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

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.

ASSIGNMENT
Docket No. 36274/SAH/B600

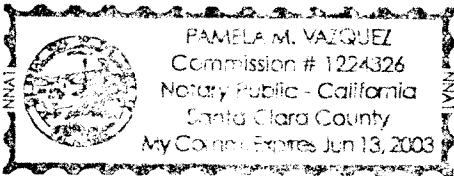
Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 24th day of February, 2000.

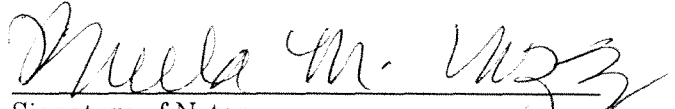

Alexander G. MacInnis

STATE OF CA
COUNTY OF Santa Clara

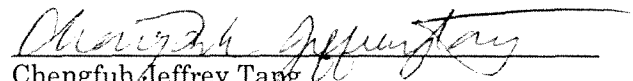
On February 24, 2000, before me Pamela M. Vazquez, Notary Public, personally appeared Alexander G. MacInnis personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same 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.

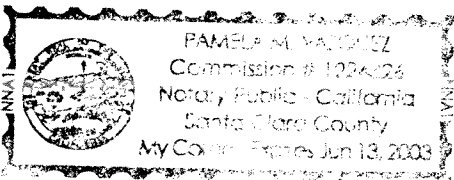

Signature of Notary

IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of February, 2000.

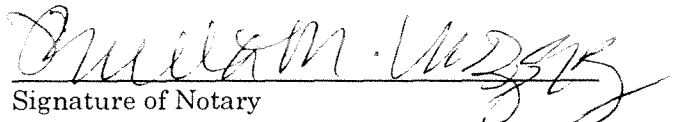

Chengfuh Jeffrey Tang

STATE OF CA
COUNTY OF Santa Clara

On February 24, 2000, before me Pamela M. Vazquez, Notary Public, personally appeared Chengfuh Jeffrey Tang 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. 36274/SAH/B600

Joint

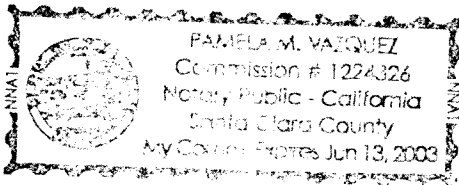
IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of February, 2000.

Xiaodong Xie
Xiaodong Xie

STATE OF CA
COUNTY OF Santa Clara

On February 24, 2000, before me Pamela M. Vazquez Notary Public, personally appeared Xiaodong Xie 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.



Pamela M. Vazquez
Signature of Notary

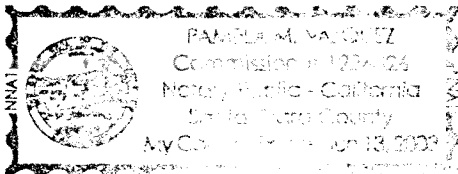
IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of February, 2000.

James T. Patterson
James T. Patterson

STATE OF CA
COUNTY OF Santa Clara

On February 24, 2000, before me Pamela M. Vazquez Notary Public, personally appeared James T. Patterson 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.



Pamela M. Vazquez
Signature of Notary

ASSIGNMENT
Docket No. 36274/SAH/B600

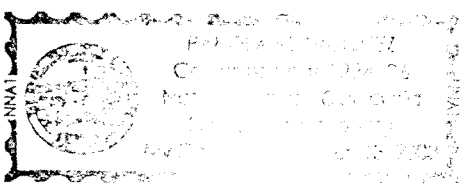
Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 24 day of February, 2000.

Greg A. Kranawetter
Greg A. Kranawetter

STATE OF
COUNTY OF Santa Clara (CA)

On February 24, 2000, before me Paola M. Vizquez, Notary Public, personally appeared **Greg A. Kranawetter** 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.

Paola M. Vizquez
Signature of Notary

SAH/rvw

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