

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Pieter Vorenkamp</td> <td>02/06/2000</td> </tr> <tr> <td>Klaas Bult</td> <td>02/18/2000</td> </tr> <tr> <td>Frank Carr</td> <td>02/04/2000</td> </tr> <tr> <td>Christopher M. Ward</td> <td>02/18/2000</td> </tr> <tr> <td>Ralph Duncan</td> <td>02/28/2000</td> </tr> <tr> <td>Tom W. Kwan</td> <td>02/28/2000</td> </tr> <tr> <td>James Y.C. Chang</td> <td>02/24/2000</td> </tr> <tr> <td>Haideh Khorramabadi</td> <td>02/28/2000</td> </tr> </tbody> </table>		Name	Execution Date	Pieter Vorenkamp	02/06/2000	Klaas Bult	02/18/2000	Frank Carr	02/04/2000	Christopher M. Ward	02/18/2000	Ralph Duncan	02/28/2000	Tom W. Kwan	02/28/2000	James Y.C. Chang	02/24/2000	Haideh Khorramabadi	02/28/2000
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Haideh Khorramabadi	02/28/2000																		
RECEIVING PARTY DATA																			
Name:	Broadcom Corporation																		
Street Address:	5300 California Avenue																		
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>12883575</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12883575														
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Application Number:	12883575																		
CORRESPONDENCE DATA																			
Fax Number:	(202)371-2540																		
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																			
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Correspondent Name:	Sterne, Kessler, Goldstein & Fox PLLC																		
Address Line 1:	1100 New York Avenue, N.W.																		
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20005																		
ATTORNEY DOCKET NUMBER:	1875.095000Q																		

OP \$40.00 12883575

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PATENT
REEL: 024998 FRAME: 0463

NAME OF SUBMITTER:

Michael R. Malek

Total Attachments: 6

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BP 1212

Docket No. 33756/LTR/B600

Joint

ASSIGNMENT

WHEREAS, WE, PIETER VORENKAMP, KLAAS BULT, FRANK CARR, CHRISTOPHER M. WARD, RALPH DUNCAN, TOM W. KWAN, JAMES Y.C. CHANG and HAIDEH KHORRAMABADI residing at

- 5 Timberland, Aliso Viejo, California 92656;
- Mesdaglaan 1C, 3735 LK Bosch en Duin, The Netherlands;
- 77 Bell Canyon Drive, Dove Canyon, California 92679;
- Kosterjiland 14, 3981 AJ Bunnik, The Netherlands;
- 585 Bartlett Court, Brentwood, California 94513;
- 2332 Skyline Drive, Milpitas, California 95035;
- 1143 Taft Street, Irvine, California 92620; and
- 101 Alma Street, No. 403, Palo Alto, California 94301;

respectively, have invented certain new and useful improvements disclosed in an application for United States Letters Patent entitled FULLY INTEGRATED TUNER ARCHITECTURE, filed November 12, 1999, Application No. 09/439,101.

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;

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ASSIGNMENT

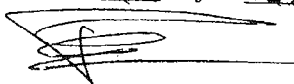
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AND WE HEREBY covenant that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith;

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 6 day of February, ~~19~~ 2000



Pieter Vorenkamp

STATE OF _____)
COUNTY OF _____)

On _____, before me _____, Notary Public, personally appeared Pieter Vorenkamp 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

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Docket No. 33756/LTR/B600

Joint.

IN TESTIMONY WHEREOF, I hereunto set my hand this 18 day of February, ~~19~~ 2000

[Signature]
Klaas Bult

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **Klaas Bult** 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 4 day of February, ~~19~~ 2000

[Signature]
Frank Carr

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **Frank Carr** 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

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Docket No. 33756/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 18 day of February, ~~19~~ 2000.

Christopher M. Ward
Christopher M. Ward

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **Christopher M. Ward** 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 28 day of February, ~~19~~ 2000

Ralph Duncan
Ralph Duncan

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **Ralph Duncan** 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

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ASSIGNMENT
Docket No. 33756/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 28 day of February, 192000

Tom W. Kwan
Tom W. Kwan

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **Tom W. Kwan** 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, 192000

James Y. C. Chang
James Y. C. Chang

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **James Y.C. Chang** 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

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ASSIGNMENT
Docket No. 33756/LTR/B600

Joint

IN TESTIMONY WHEREOF, I hereunto set my hand this 28 day of February, ~~20~~ 2000

Haideh Khorramabadi
Haideh Khorramabadi

STATE OF)
COUNTY OF)

On _____, before me _____, Notary Public, personally appeared **Haideh Khorramabadi** 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 she executed the same in her authorized capacity, and that by her 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

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