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05-03-2004



U.S. PTO
10/832262



Form PTO-1595
(Rev. 10/02)
OMB No. 0651-0027 (exp. 6/30/2005)
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PATENTS ONLY

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
(1) Lionel J. D'Luna
(2) Mark Chambers
(3) Thomas Hughes
(4) Kwang Y. Kim
(5) Sathish K. Radhakrishnan
Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)
Name: Broadcom Corporation
Internal Address: _____

Street Address: 16215 Alton Parkway

City: Irvine State: CA Zip: 92618-3616
Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____
Execution Date: March 30, 2004 & April 14, 2004

4. Application number(s) or patent number(s):
If this document is being filed together with a new application, the execution date of the application is: 03/30/04 & 04/14/04
A. Patent Application No.(s)
To be assigned 101832262
Additional numbers attached? Yes No

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:
Name: Sterne Kessler, Goldstein & Fox P.L.L.C.
Internal Address: c/o

Street Address: 1100 New York Avenue, N.W.

City: Washington State: D.C. Zip: 20005-3934

6. Total number of applications and patents involved: 1
7. Total fee (37 CFR 3.41).....\$ 40.00
 Enclosed
 Authorized to be charged to deposit account
8. Deposit account number:
19-0036
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9. Statement and signature.
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.
Jason D. Eisenberg
Name of Person Signing
[Signature]
Signature
4/27/04
Date
Total number of pages including cover sheet, attachments, and documents: 5

04/29/2004 AADDF01 00000001 10832262

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

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40.00 DP

PATENT
REEL: 015270 FRAME: 0379

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: 1) Lionel J. D'Anna, 2) Mark Chambers, 3) Thomas Hughes, 4) Kwang Y. Kim, and 5) Sathish K. Radhakrishnan, the undersigned inventors hereby sell and assign to Broadcom Corporation, a corporation organized under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as Phase Controlled High Speed Interfaces for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) _____, 2) _____, 3) _____, 4) _____, and 5) _____, (also known as United States Application No. TBD, filed TBD), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventors' certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant James D. Bennett, Registration No. 37,550, Jeffrey DeRoy Wheeler, Registration No. 39,066; Noel Benjamin Whitely, Registration No. 42,225; and Harry Shannon Tyson, Jr., Registration No. 42,193, of Broadcom Corporation, 16215 Alton Parkway, Irvine, CA 92618-3616, and Robert Greig Sterne, Esq., Registration No. 28,912; Edward J. Kessler, Esq., Registration No. 25,688; Jorge A. Goldstein, Esq., Registration No. 29,021; David K.S. Cornwell, Esq., Registration No. 31,944; Robert W. Eamond, Esq., Registration No. 32,493; Tracy Gene G. Durkin, Esq., Registration No. 32,831; Michele A. Cimbala, Esq., Registration No. 33,851; Michael B. Ray, Esq., Registration No. 33,997; Robert E. Sokohl, Esq., Registration No. 36,013; Eric K. Steffe, Esq., Registration No. 36,688; Michael Q. Lee, Esq., Registration No. 35,239; Steven R. Ludwig, Esq., Registration No. 36,203; John M. Gower, Esq., Registration No. 38,759; Linda E. Alcorn, Esq., Registration No. 39,588; Lawrence B. Bugnisky, Esq., Registration No. 35,088; Donald J. Featherstone, Esq., Registration No. 33,876; Robert C. Millong, Esq., Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,479; Timothy J. Shea, Jr., Esq., Registration No. 41,306; Patrick E. Garrett, Esq., Registration No. 39,987; all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Washington, D.C. 20005-3934, power to insert in this assignment any further

identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 15 Apr 2001

Signature of inventor: Lionel J. DiLuna

Date: _____

Signature of inventor: Mark Chambers

Date: _____

Signature of inventor: Thomas Hughes

Date: _____

Signature of inventor: Kwang Y. Kim

Date: 15 Apr 2001

Signature of inventor: Sathish K. Radhakrishnan

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ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to each of the undersigned inventors: **1) Lionel J. D'Luna, 2) Mark Chambers, 3) Thomas Hughes, 4) Kwang Y. Kim, and 5) Sathish K. Radhakrishnan**, the undersigned inventors hereby sell and assign to **Broadcom Corporation**, a corporation formed under the laws of California (the Assignee) his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as **Phase Controlled High Speed Interfaces** for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 1) 3-30-04 2) 5-30-04, 3-30-04, 4) 3-30-04 and 5) _____, (also known as United States Application No. **TBD**, filed **TBD**), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all applications that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

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identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: 3.30.04 Signature of Inventor: Lionel J. D'Luna
Lionel J. D'Luna

Date: 3-30-04 Signature of Inventor: Mark Chambers
Mark Chambers

Date: 3-30-04 Signature of Inventor: Thomas Hughes
Thomas Hughes

Date: 3-30-04 Signature of Inventor: Kwang Y. Kim
Kwang Y. Kim

Date: _____ Signature of Inventor: _____
Sathish K. Radhakrishnan

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