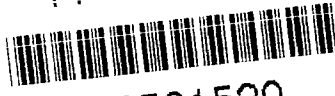


11-04-2003

Attorney Docket No. 1875.4580000

Form PTO-1595 (Rev. 03/01)

10-2703



U.S. Department of Commerce Patent and Trademark Office

OMB No. 0651-0027 (exp. 5/31/2002)

102591520

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

1. Name of conveying party(ies):

a. **Augustine KUO**
 b. **Tom KWAN**
 c. **Sumant RANGANATHAN**

Additional name(s) of conveying party(ies) attached? yes no

2. Name and address of receiving party(ies):

Name: **Broadcom Corporation**

Street Address: **16215 Alton Parkway**

City: **Irvine** State: **CA** Zip Code: **92618-3616**

Country: **U.S.A.**

Additional name(s) & address(es) attached? yes no

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3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **October 24, 2003**

4. Application number(s) or patent number(s): **10692821**

If this document is being filed together with a new application, the execution date of the application is **October 24, 2003**

A. Patent Application No(s).
(to be assigned)

B. Patent No(s).

Additional numbers attached? yes no

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 Michael D. Specht**

Street Address: **1100 New York Ave., N.W.**

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

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. § 3.41).....\$**40.00**

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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.

Michael D. Specht
 Name of Person Signing
 Registration No. **54,463**

Michael D. Specht
 Signature

11/27/03
 Date

Total number of pages including cover sheet, attachments and document 3

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PATENT REEL: 014645 FRAME: 0242

Docket No. 1875.5310000

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other good and valuable consideration paid to the undersigned inventors: (1) Augustine KUO, (2) Tom KWAN, and (3) Sumant RANGANATHAN the undersigned inventors hereby sell and assign to Broadcom Corporation (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:

check applicable box(es) for the United States of America (as defined in 35 U.S.C. § 100),
 and throughout the world,

RES
10/24/03

(a) in the invention known as Hybrid Circuit for Broadband Modems, for which application for patent in the United States of America has been executed by the undersigned on (1) ✓ 10/24/03, (2) ✓ 10/24/03 and (3) ✓ 10/24/03 (also known as United States Application No. (to be assigned), filed (herewith)), 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 continuing 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 and any 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 or any continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s)

Augustine Kuo
10/24/03

Sumant Ranganathan
10/24/03
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Tom Kwan
10/24/03

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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 hereby grants James D. Bennett, Registration No. 37,550 and David J. Rosmann, Registration No. 43,059, of Broadcom Corporation, and Robert Greene Sterne, Esquire, Registration No. 28,912; Edward J. Kessler, Esquire, Registration No. 25,688; Jorge A. Goldstein, Esquire, Registration No. 29,021; David K.S. Cornwell, Esquire, Registration No. 31,944; Robert W. Esmond, Esquire, Registration No. 32,893; Tracy-Gene G. Durkin, Esquire, Registration No. 32,831; Michele A. Cimbala, Esquire, Registration No. 33,851; Michael B. Ray, Esquire, Registration No. 33,997; Robert E. Sokohl, Esquire, Registration No. 36,013; Eric K. Steffe, Esquire, Registration No. 36,688; Michael Q. Lee, Esquire, Registration No. 35,239; Steven R. Ludwig, Esquire, Registration No. 36,203; John M. Covert, Esquire, Registration No. 38,759; Linda E. Alcorn, Esquire, Registration No. 39,588; Lawrence B. Bugaisky, Esquire, Registration No. 35,086; Donald J. Featherstone, Esquire, Registration No. 33,876; and Robert C. Millionig, Esquire, Registration No. 34,395; Michael V. Messinger, Esq., Registration No. 37,575; Judith U. Kim, Esq., Registration No. 40,679; Timothy J. Shea, Jr., Esq., Registration No. 41,306; and Patrick E. Garrett, Esq., Registration No. 39,987, all of STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C., 1100 New York Avenue, N.W., Suite 600, 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 inventor on the date opposite his/her name.

Date: ✓ 10/24/03 Signature of Inventor: ✓ *Augustine Kuo*
Augustine KUO

Date: ✓ 10/24/03 Signature of Inventor: ✓ *Tom Kwan*
Tom KWAN

Date: ✓ 10/24/03 Signature of Inventor: ✓ *Sumant Ranganathan*
Sumant RANGANATHAN

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