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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): Steven Jaffe, Tracy C. Denk, Erik Berg, and Amy Hundhausen

2-21-03

2. Name and address of receiving party(ies)

Name: Broadcom Corporation

Internal Address:

Street Address: 16215 Alton Parkway

City: Irvine State: CA Zip: 92618-7013

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of conveyance:

- Assignment Merger Security Agreement Change of Name Other

02/14/2003

Execution Date:

Additional name(s) & address(es) attached? Yes No

4. Application number(s) or patent number(s): Attorney Docket No. BP 2247 (new patent application)

If this document is being filed together with a new application, the execution date of the application is: 02/21/2003

A. Patent Application No.(s)

10372427

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: USPTO Customer Number 34399

Internal Address: Shayne X. Short, Ph.D.

Garlick Harrison & Markison LLP

Street Address: P.O. Box 160727

City: Austin State: TX Zip: 78716-0727

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

- Enclosed (PTO-2038 Credit Card Payment Form Enclosed) Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

Shayne X. Short, Ph.D. Name of Person Signing

Signature

02/21/2003 Date

Total number of pages including cover sheet, attachments, and documents: 3

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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PATENT REEL: 013815 FRAME: 0285

30079 U.S. PTO 10/372427 02/21/03

ASSIGNMENT

WHEREAS, the undersigned inventors, hereinafter called the "Assignors", have invented a new and useful invention entitled:

ALL DIGITAL RADIO FREQUENCY MODULATOR

for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.

WHEREAS, Broadcom Corporation , a USA company having a principal office and place of business at, 16215 Alton Parkway Irvine California 92618-7013 hereinafter called the "Assignee", is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all division, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignors do hereby covenant and agree, for themselves and their legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional

