

05-24-2004

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

22276 U.S. PTO 10/847798



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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): Gregory H. Efland Venkat Kodavati Gouri Pidugu Srinivasa H. Garlapati Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

5-18-04

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) & address(es) attached? [ ] Yes [X] No

3. Nature of conveyance: [X] Assignment [ ] Merger [ ] Security Agreement [ ] Change of Name [ ] Other

Execution Date: 5/13/04 & 5/16/04

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: 5/18/04 A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? [ ] Yes [X] No

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5. Name and address of party to whom correspondence concerning document should be mailed: Name: William W. Kidd Internal Address: Garlick, Harrison & Markison Street Address: P. O. Box 160727 City: Austin State: TX Zip: 78716-0727

6. Total number of applications and patents involved: [ ] 7. Total fee (37 CFR 3.41).....\$ 40.00 [X] Enclosed [ ] Authorized to be charged to deposit account

8. Deposit account number:

05/20/2004 DTESSEN1 00000052 10847798 40.00 00

DO NOT USE THIS SPACE

9. Signature. William W. Kidd 31,772 Name of Person Signing Signature Date 5/18/04

Total number of pages including cover sheet, attachments, and documents: 5

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

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignors", have invented a new and useful invention entitled:

**POWERING DOWN OF DAC AND ADC FOR RECEIVE/TRANSMIT  
MODES OF OPERATION IN A WIRELESS DEVICE**

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 inventions, 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 divisions, 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 agree 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 papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner for Patents is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

**IN TESTIMONY WHEREOF**, the Assignors have hereunto set their hands on the date indicated below.

	16 May 2004
Gregory H. Efland	date
Venkat Kodavati	date
Gouri Pidugu	date
Srinivasa H. Garlapati	date
	date

**ASSIGNMENT**

**WHEREAS**, the undersigned inventor(s), hereinafter called the "Assignors", have invented a new and useful invention entitled:

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**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 divisions, 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.

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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 papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, and facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

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IN TESTIMONY WHEREOF, the Assignors have hereunto set their hands on the date indicated below.

\_\_\_\_\_  
Gregory H. Efland

\_\_\_\_\_  
date

*K.V. Loo*  
\_\_\_\_\_  
Venkat Kodavati

*05/13/2004*  
\_\_\_\_\_  
date

*P. Gouri*  
\_\_\_\_\_  
Gouri Pidugu

*05/13/2004*  
\_\_\_\_\_  
date

*Srinivasa H. Garlapati*  
\_\_\_\_\_  
Srinivasa H. Garlapati

*05/13/2004*  
\_\_\_\_\_  
date

\_\_\_\_\_  
date