

RECORDATION FORM COVER SHEET 18195US01

PATENTS ONLY

To the Director of the U.S. Patents and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Ahmadreza Rofougaran

Additional name 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

Country: USA

Zip: 92618

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) February 27, 2007

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

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

A. Patent Application No.(s)  
11/680,044

This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: McAndrews, Held & Malloy

Internal Address: \_\_\_\_\_

Street Address: 500 West Madison Street  
34<sup>th</sup> Floor

City: Chicago

State: IL Zip: 60661

Phone Number: (312) 775-8000

Fax Number: (312) 775-8100

Email Address: mhmp@mhmlaw.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 13-0017

Authorized User Name McAndrews Held & Malloy, Ltd.

9. Signature:

Signature

3/20/07

Date

Ognyan I. Beremski Reg. No. 51,438  
including cover

Total number of pages

4

Name of Person Signing sheet, attachments, and documents

Documents to be recorded (including cover sheet) should be faxed to (571)273-0140, or mailed to:  
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**ASSIGNMENT**

File No.: 18195US01

Serial No.: 11/680,044

Inventors: Ahmadreza Rofougaran

Filing Date: February 28, 2007

In consideration of One Dollar (\$1.00) and other good and valuable considerations in hand paid, the receipt and sufficiency whereof are hereby acknowledged, each of the undersigned hereby assigns to Broadcom Corporation, incorporated under the laws of the state of California, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled: "A METHOD AND SYSTEM FOR POLAR MODULATION USING A DIRECT DIGITAL FREQUENCY SYNTHESIZER" and identified as File No. 18195US01, in the offices of McANDREWS, HELD & MALLOY, LTD., and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any continuation, continuation-in-part, divisional, re-examination, reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

Each of the undersigned hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee. Each of the undersigned hereby authorizes and requests the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known. Each of the undersigned warrants himself/herself to be the owner of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrants that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations, each of the undersigned hereby agrees, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all continuation, continuation-in-part, divisional, re-examination, extension, and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue, re-examination, or extension of any Letters Patent that may be granted upon said application, and any and all applications and other document for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations each of the undersigned authorizes said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agrees, upon the request of said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence and performing any and all other acts necessary to obtain said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the

**PATENT****REEL: 019176 FRAME: 0524**

**Assignment for Attorney Docket No. 18195US01**

said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Assignment for Attorney Docket No. 18195US01

WITNESS my hand this 27 day of February, 2007.



Ahmadreza Rofougaran



TO: SUBMITTER COMPANY: Faxed to Submitter's Fax Number



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**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

March 22, 2007

Submitter

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TRANSMISSION REPORT  
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(TUE) MAR 20 2007 16:58  
McANDREWS, HELD, & MALLOY

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to: U.S. Patent and Trademark Office

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from: Ognyan I. Beremski

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date: March 20, 2007 user ID: 8077/kkm

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client: 01772

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matter: 18195US01

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notes/comments: