

05-04-2009



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To the Director of the U.S. Patent and Trademark Office

Documents or the new address(es) below.

4/23/09

**1. Name of conveying party(ies)**

See 1 in Addendum

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

Name: Broadcom Corporation

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

Street Address: 5300 California Avenue

City: Irvine

State: California

Country: US

Zip: 92617

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

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

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

Execution Date(s) \_\_\_\_\_

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

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

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

To Be Assigned

Additional numbers attached?  Yes  No

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

Name: Sterne, Kessler, Goldstein & Fox P.L.L.C.

Internal Address: c/o Jeffrey T. Helvey

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

City: Washington

State: D.C.

Zip: 20005-3934

Phone Number: \_\_\_\_\_

Fax Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: one (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**

1005

08/2009

Deposit Account Number 19-0036

Authorized User Name \_\_\_\_\_

**9. Signature:**

Jeffrey T. Helvey (44,757)  
Signature

4/23/09  
Date

Jeffrey T. Helvey  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

# Addendum

1. 1. Ramon GOMEZ (April 13, 2009)
2. Giuseppe CUSMAI (April 10, 2009)
3. Jianhong XIAO (April 10, 2009)
4. Takayuki HAYASHI (April 21, 2009)
5. Young SHIN (April 21, 2009)

## 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: **Ramon GOMEZ, Giuseppe CUSMAI, Jianhong XIAO, Takayuki HAYASHI and Young SHIN**, hereby sell and assign to **Broadcom Corporation**, a corporation formed under the laws of California, whose mailing address is 5300 California Avenue, Irvine, California 92617 (hereafter referred to as 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 **Direct Coupled Radio Frequency (RF) Transceiver Front End** for which application(s) for patent in the United States of America has a filing date or a 371(c) date of To Be Assigned (also known as United States Application No. To Be Assigned), 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.

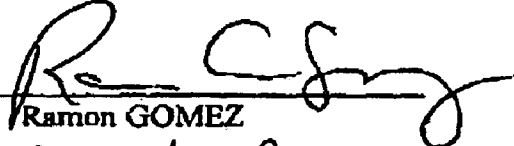
The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection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

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 the patent practitioners associated with CUSTOMER NUMBER 49579 the 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: 4/13/2009 Signature of Inventor:   
Ramon GOMEZ

Date: 04/10/2003 Signature of Inventor:   
Giuseppe CUSMAI

Date: 04/10/2008 Signature of Inventor:   
Jianhong XIAO

Date: 04/21/2008 Signature of Inventor:   
Takayuki HAYASHI

Date: 4/21/09 Signature of Inventor:   
Young SHIN

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