# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date
Bruce J. Currivan	07/17/2006
Thomas J. Kolze	07/19/2006
Kevin L. Miller	07/18/2006
Richard Prodan	07/19/2006
Jonathan S. Min	07/16/2006

### **RECEIVING PARTY DATA**

Name:	Broadcom Corporation
Street Address:	5300 California Avenue
City:	Irvine
State/Country:	CALIFORNIA
Postal Code:	92617

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11489538

## **CORRESPONDENCE DATA**

Fax Number: (202)371-2540

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 202-371-2600 Email: jasone@skgf.com

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

Address Line 1: 1100 New York Avenue, N.W.

Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

ATTORNEY DOCKET NUMBER:	1875.8330001
NAME OF SUBMITTER:	Jason D. Eisenberg

PATENT REEL: 023777 FRAME: 0419 OP \$40.00 114

501064724

Total Attachments: 10
source=1875.8330001 Assignment#page1.tif
source=1875.8330001 Assignment#page2.tif
source=1875.8330001 Assignment#page3.tif
source=1875.8330001 Assignment#page4.tif
source=1875.8330001 Assignment#page5.tif
source=1875.8330001 Assignment#page6.tif
source=1875.8330001 Assignment#page7.tif
source=1875.8330001 Assignment#page8.tif
source=1875.8330001 Assignment#page9.tif
source=1875.8330001 Assignment#page9.tif

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: **Bruce J. Currivan**, **Thomas J. Kolze, Kevin L. Miller, Richard Prodan and Jonathan S. Min**, hereby sell and assign to **Broadcom Corporation**, a corporation formed under the laws of California, whose mailing address is 16215 Alton Parkway, Irvine, CA 92618-3616 (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 **System and Method of Uncorrelated Code Hopping in a Communications System** for which application(s) for patent in the United States of America has a filing date or a 371(c) date of 12012012 (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

TTH 12/14/19

- (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

Page 1 of 2

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 und	ersigned inventors on the date
opposite his/her name.		
Date: $7/17/2006$	Signature of Inventor:	Bruse J. Currivan
Date:	Signature of Inventor:	
Date	orginature of inventor.	Thomas J. Kolze
Date:	Signature of Inventor:	
		Kevin L. Miller
Date:	Signature of Inventor:	
		Richard Prodan
Date:	Signature of Inventor:	
		Jonathan S. Min

Appl. No. To be a signed Docket No. 1875.8 (3000)

#### ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) or equivalent and other goo i and valuable consideration paid to each of the undersigned inventors: Bruce J. Currivan, Thomas J. Kolze, Kevin L. Miller, Richard S. Prodan and Jonathan S. Min, hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California, whose mailing address is 16215 Alton Parkway, Irvine, CA 92618-3616 (hereafter referred to as the Assignce), 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 System and Method of Uncorrelated Code Hopping in a Communications System for which application(s) for patent in the United States of America has a filing date or a 371(c) date of 11012016 (also known as United States Application No. To be assigned), in any and all applications thereon, in any and all Letters Fatent(s) therefor, and

77H 12/14/09

- (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 Assigns e, 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

Page 1 of 2

REEL: 023777 FRAME: 0423

Appl. No. To be a signed Docket No. 1875.8 (300)

to execute separate assignments in connection with such application(s) as the Assigner 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:	Signature of Inventor;	
Date: 19 July 2006		Rnice i Currivan
Date:	Signature of Inventor:	
Date;	Signature of Inventor:	Richard S. Prodan
Date:	Signature of Inventor:	Yonathau S. Min

Page 2 of 2

**REEL: 023777 FRAME: 0424** 

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: **Bruce J. Currivan**, **Thomas J. Kolze, Kevin L. Miller, Richard S. Prodan and Jonathan S. Min**, hereby sell and assign to **Broadcom Corporation**, a corporation formed under the laws of California, whose mailing address is 16215 Alton Parkway, Irvine, CA 92618-3616 (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 System and Method of Uncorrelated Code Hopping in a Communications System for which application(s) for patent in the United States of America has a filing date or a 371(c) date of a look (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

JTH 12/14/2009

- (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

Page 1 of 2

Appl. No. To be assigned Docket No. 1875.8330001

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:	Signature of Inventor:	
	Bruce J. Currivan	
Date:	Signature of Inventor:	_
	Thomas J. Kolze	,
Date: 7/18/06	Signature of Inventor: Kevin L. Miller	4
D.4.		
Date:	Signature of Inventor: Richard S. Prodan	_
Date:	Signature of Inventor:	
	Ionathan S. Min	

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: Bruce J. Currivan, Thomas J. Kolze, Kevin L. Miller, Richard S. Prodan and Jonathan S. Min, hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California, whose mailing address is 16215 Alton Parkway, Irvine, CA 92618-3616 (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 System and Method of Uncorrelated Code Hopping in a Communications System for which application(s) for patent in the United States of America has a filing date or a 371(c) date of library (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

12/14/2009

- (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

Page 1 of 2

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:	Signature of Inventor:	
		Bruce J. Currivan
Date:	Signature of Inventor:	
		Thomas J. Kolze
Date:	Signature of Inventor:	
Date: 7/19/06		Kevin L. Miller Richard S. Prodan
Date:	Signature of Inventor: _	Ionathan S. Min

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: Bruce J. Currivan, Thomas J. Kolze, Kevin L. Miller, Richard Prodan and Jonathan S. Min, hereby sell and assign to Broadcom Corporation, a corporation formed under the laws of California, whose mailing address is 16215 Alton Parkway, Irvine, CA 92618-3616 (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 System and Method of Uncorrelated Code Hopping in a Communications System for which application(s) for patent in the United States of America has a filing date or a 371(c) date of 12612606 (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

12/14/2009

- (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

Page 1 of 2

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:	Signature of Inventor:	
	-	Bruce J. Currivan
Date:	Signature of Inventor:	
		Thomas J. Kolze
Date:	Signature of Inventor:	
		Kevin L. Miller
Date:	Signature of Inventor:	
	-	Richard Prodan
Date: 7/16/06	Signature of Inventor:	
	_	Jonathur S. Min

Page 2 of 2

**RECORDED: 01/13/2010**