

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Parastoo NIKAEEN</td> <td>03/29/2012</td> </tr> <tr> <td>Stefanos SIDIROPOULOS</td> <td>04/30/2012</td> </tr> <tr> <td>Marc Joseph LOINAZ</td> <td>03/29/2012</td> </tr> </tbody> </table>	Name	Execution Date	Parastoo NIKAEEN	03/29/2012	Stefanos SIDIROPOULOS	04/30/2012	Marc Joseph LOINAZ	03/29/2012	
Name	Execution Date								
Parastoo NIKAEEN	03/29/2012								
Stefanos SIDIROPOULOS	04/30/2012								
Marc Joseph LOINAZ	03/29/2012								
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:	13435461								
CORRESPONDENCE DATA									
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Correspondent Name:	STERNE, KESSLER, GOLDSTEIN & FOX PLLC								
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ATTORNEY DOCKET NUMBER:	2875.9690000								
NAME OF SUBMITTER:	Michael R. Malek								
Total Attachments: 4 source=28759690000assignment2#page1.tif source=28759690000assignment2#page2.tif source=28759690000assignment2#page3.tif source=28759690000assignment2#page4.tif									

OP \$40.00 13435461

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: **Parastoo NIKAEEN, Stefanos SIDIROPOULOS and Marc Joseph LOINAZ**, 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 Systems, Circuits, and Methods for a Digital Frequency Synthesizer for which application(s) for patent in the United States of America has a filing date or a 371(c) date of Herewith (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.

The undersigned inventors hereby represent that he/she understands that the patent practitioners associated with **CUSTOMER NUMBER 49579** are the legal representatives of, and attorneys for, the assignee, and are NOT the legal representatives of, and attorneys for, the inventors.

IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

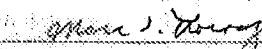
Date: 3/29/12

Signature of Inventor: 
Parastoo NIKAEEN

Date: _____

Signature of Inventor: _____
Stefanos SIDIROPOULOS

Date: 3/29/2012

Signature of Inventor: 
Marc Joseph LOINAZ

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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: **Parastoo NIKAEEN, Stefanos SIDIROPOULOS and Marc Joseph LOINAZ**, 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 **Systems, Circuits, and Methods for a Digital Frequency Synthesizer** for which application(s) for patent in the United States of America has a filing date or a 371(c) date of March 30, 2012 (also known as United States Application No. 13/435,461), 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.

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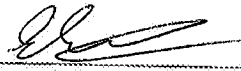
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IN WITNESS WHEREOF, executed by the undersigned inventors on the date opposite his/her name.

Date: _____	Signature of Inventor: _____ Parastoo NIKAEEN
Date: <u>4/30/2012</u>	Signature of Inventor:  Stefanos SIDIROPOULOS
Date: _____	Signature of Inventor: _____ Marc Joseph LOINAZ

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