## PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Emmanouil Frantzeskakis	06/30/2011
Georgios Sfikas	06/30/2011
Stephen Wu	06/29/2011
Radha Srinivasan	06/29/2011
Henrik Tholstrup Jensen	06/29/2011
Brima Ibrahim	06/29/2011

## **RECEIVING PARTY DATA**

Name:	Broadcom Corporation
Street Address:	5300 California Avenue
City:	Irvine
State/Country:	CALIFORNIA
Postal Code:	92617-3038

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13962325

# **CORRESPONDENCE DATA**

Fax Number: 9492821002

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

Phone: 949-282-1000

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Correspondent Name: Michael Farjami

Address Line 1: 26522 La Alameda Ave., Suite 360
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ATTORNEY DOCKET NUMBER:	0250294C1
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NAME OF SUBMITTER: Michael Farjami

PATENT REEL: 030971 FRAME: 0600 , \$40,00 1396232

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Signature:	/MF/
Date:	08/08/2013
Total Attachments: 4 source=0250294C1 Assignment for 13 962,325#page1.tif source=0250294C1 Assignment for 13 962,325#page2.tif source=0250294C1 Assignment for 13 962,325#page3.tif source=0250294C1 Assignment for 13 962,325#page4.tif	

PATENT REEL: 030971 FRAME: 0601

Docket No.: 76617-8003.US00 / BU22340 Assignment [page 1 of 2]

#### ASSIGNMENT

We, Emmanouil Frantzeskakis, of Ilioupolis, Greece; Georgios Sfikas, of Glyfada, Greece; Stephen Wu, of Fountain Valley, California; Radha Srinivasan, of Irvine, California; Henrik Tholstrup Jensen, of Long Beach, California; and Brima Ibrahim, of Laguna Hills, California; hereby assign to Broadcom Corporation, a corporation of California, having a place of business at 5300 California Avenue, Irvine, California 92617-3038, United States of America, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent filed by us, entitled DIGITAL PHASE LOCKED LOOP CIRCUITS WITH MULTIPLE DIGITAL FEEDBACK LOOPS, filed June 30, 2011 , and assigned U.S. Serial Number 13/173,694 ... We authorize and request an attorney appointed in said application to hereafter insert above the filing date and serial number of said application when known.

This assignment includes said application, all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes, and the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. We authorize the Assignee to apply in all countries in our names or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, we hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between us and the Assignee existing at the time said inventions and improvements were made. Should we have any remaining interest, we hereby sell, assign, and transfer any right, title and interest we may have in said inventions and improvements anywhere in the world to the Assignee.

76617-8003.US0/LEGAL21235897.1

PATENT REEL: 030971 FRAME: 0602

Docket No.: 76617-8003.US00 / BU22340 Assignment [page 2 of 2]

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged, and in accordance with the aforementioned employment agreement.

We hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

We further covenant for ourselves and our respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to us and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

date: <u>30 )mne 2011</u>	TANAMAN EDANGTEGVAVIE
DATE: 30 JUNE 2011	EMMANOUIL FRANTZESKAKIS  GEORGIOS SFIKAS
DATE:	STEPHEN WU
DATE:	RADHA SRINIVASAN
DATE:	HENRIK THOLSTRUP JENSEN
DATE:	BRIMA IBRAHIM
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Docket No.: 76617-8003.US00 / BU22340 Assignment [page 1 of 2]

#### ASSIGNMENT

We, Emmanouil Frantzeskakis, of Ilioupolis, Greece; Georgios Sfikas, of Glyfada, Greece; Stephen Wu, of Fountain Valley, California; Radha Srinivasan, of Irvine, California; Henrik Tholstrup Jensen, of Long Beach, California; and Brima Ibrahim, of Laguna Hills, California; hereby assign to Broadcom Corporation, a corporation of California, having a place of business at 5300 California Avenue, Irvine, California 92617-3038, United States of America, and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in any and all inventions and improvements which are described in an application for United States Patent filed by us, entitled DIGITAL PHASE LOCKED LOOP CIRCUITS WITH MULTIPLE DIGITAL FEEDBACK LOOPS, filed June 30, 2011 \_\_\_, and assigned U.S. Serial Number \_\_\_\_13/173,694 \_\_\_\_. We authorize and request an attorney appointed in said application to hereafter insert above the filing date and serial number of said application when known.

This assignment includes said application, all legal equivalents thereof in any country, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions and improvements, the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes, and the right to seek relief and recover all damages, including, but not limited to, a reasonable royalty, by reason of infringement or any other violation of patent or patent application rights. We authorize the Assignee to apply in all countries in our names or in the name of the Assignee for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements.

In addition, we hereby confirm the sale, assignment, and transfer to the Assignee of the entire right, title and interest throughout the world in said inventions and improvements that occurred by operation of an employment agreement between us and the Assignee existing at the time said inventions and improvements were made. Should we have any remaining interest, we hereby sell, assign, and transfer any right, title and interest we may have in said inventions and improvements anywhere in the world to the Assignee.

76617-8003.US0/LÆGAL21235897.1

PATENT REEL: 030971 FRAME: 0604

Docket No.: 76617-8003.US00 / BU22340 Assignment [page 2 of 2]

The foregoing assignments, sale and transfer have been made for good and valuable consideration, the receipt of which is hereby acknowledged, and in accordance with the aforementioned employment agreement.

We hereby represent and covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into that would conflict with the assignment of said inventions and improvements to the Assignee.

We further covenant for ourselves and our respective heirs, legal representatives and assigns, to assist the Assignee in handling various procedures, tasks and documentation in connection with this assignment, including, but not limited to, providing to the Assignee promptly upon the request of the Assignee all pertinent facts and documents relating to said invention and improvements, and said patents, said legal equivalents or other legal instrument as may be known and accessible to us and testifying as to the same in any interference, litigation, or proceeding relating thereto, and promptly executing and delivering to the Assignee or its legal representative any and all papers, documents, instruments or affidavits in connection with obtaining, maintaining, issuing or enforcing said application, said inventions and improvements, and said patents, said equivalents and other legal instrument which may be necessary or desirable to carry out the purposes thereof.

DATE:		
	E	MMANOUIL FRANTZESKAKIS
DATE:		
	G	EORGIOS SFIKAS
DATE: 6/29	12011	- Gallo
		TEPHENWU
DATE: 6/29/	2011	S. Roidhe
, ,	/ R	ÁDHA SRINIVASAN
DATE: <u>06/29</u>	/2011 (	Vennelyenser
/ /	(f)	EXRIK THOLSTKUP JENSEN
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PATENT REEL: 030971 FRAME: 0605

**RECORDED: 08/08/2013**