PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3906891

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SABYASACHI DAS	05/27/2016
XIAOJIAN YANG	05/31/2016
NIYATI SHAH	05/31/2016
GOVINDA KESHAVDAS	05/31/2016
FREDERIC REVENU	06/03/2016

RECEIVING PARTY DATA

Name:	XILINX, INC.
Street Address:	2100 LOGIC DRIVE
City:	SAN JOSE
State/Country:	CALIFORNIA
Postal Code:	95124

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15175897

CORRESPONDENCE DATA

Fax Number: (408)377-6137

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 408-879-4185
Email: xilinxipl@xilinx.com

Correspondent Name: XILINX, INC.
Address Line 1: 2100 LOGIC DR
Address Line 2: ATTN: LEGAL DEPT

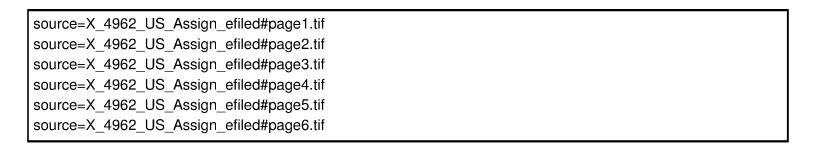
Address Line 4: SAN JOSE, CALIFORNIA 95124

ATTORNEY DOCKET NUMBER:	X-4962 US
NAME OF SUBMITTER:	KATHERINE STOFER
SIGNATURE:	/Katherine Stofer/
DATE SIGNED:	06/07/2016

Total Attachments: 6

PATENT REEL: 038836 FRAME: 0410

503860242



PATENT REEL: 038836 FRAME: 0411

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I/we
Sabyasachi Das of 4046 Carracci Lane, San Jose, CA 95135

Xiaojian Yang of 687 Pinnacles Terrace, Sunnyvale, CA 94805

Niyati Shah of 1324 S. Winchester Boulevard, Apt. No. 11, San Jose, CA 95128

Govinda Keshavdas of 290 Miramar Avenue, Apt. No. 1, San Francisco, CA 94112

Frederic Revenu of 124 Northam Avenue, San Carlos, CA 94070

hereby sell, assign and transfer to Xilinx, Inc., a Delaware corporation, having a place of business at 2100 Logic Drive, San Jose, California 95124, its successors and assigns, the entire right, title and interest throughout the world in my/our invention

CIRCUIT DESIGN IMPLEMENTATION USING CONTROL-SET BASED MERGING AND MODULE-BASED REPLICATION

for which I/we will execute a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I/we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me/us; I/we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at its request and expense, in obtaining and enforcing patents for said invention in all countries; and I/we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the abovenamed assignee, its successors and assigns.

Executed on _	05/27/2016		
		Sabya	Das.
		Sabyasachi Das	

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California) County of Santa Clara) CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself

On <u>Sabyasachi Das</u>, before me, Katherine G. Stofer, Notary Public, personally appeared <u>Sabyasachi Das</u>, who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public

KATHERINE G. STOFER
Commission # 2111248
Notary Public - California
Santa Clars County
My Comm. Expires Jun 2, 2018

Executed on May 31, 2016	Xiaojian Yang
A notary public or other officer completing this certificate verifies only the ider certificate is attached, and not the truthfulness, accuracy, or validity of that docu	
State of California) County of Santa Clara)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
On Nay 31, 3016, before me, K appeared Xiaojian Yang, who proved to me on the basis whose name(s) is/axe subscribed to the within instrumer executed the same in his/her/their authorized capacity(the instrument the person(s), or the entity upon behalf instrument.	nt and acknowledged to me that he/she/they pes), and that by his/her/their signature(s) on
I certify under PENALTY OF PERJURY under the laws of paragraph is true and correct.	of the State of California that the foregoing
WITNESS my hand and official seal. Signature of Notary Public	KATHERINE G. STOPER Commission # 2111248 Notary Public - California Santa Clara County My Comm. Expires Jun 2, 2019
Executed on May 31, 2016	Niyati Shah
A notary public or other officer completing this certificate verifies only the ide certificate is attached, and not the truthfulness, accuracy, or validity of that doc	
State of California) County of Santa Clara)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
On National State , before me, ke appeared Nivati Shah, who proved to me on the basis whose name(s) is/alse subscribed to the within instrume executed the same in his/her/their authorized capacity(the instrument the person(s), or the entity upon behal instrument.	nt and acknowledged to me that he/she/they les), and that by his/her/their signature(s) on
I certify under PENALTY OF PERJURY under the laws paragraph is true and correct.	of the State of California that the foregoing
WITNESS my hand and official seal. Signature of Notary Public	KATHERINE G. STOPER Commission # 2111248 Notsry Public - California Santa Clara County My Comm. Expires Jun 2, 2019

Executed on 05/31/2016	······································
	Govinda Keshavdas
A notary public or other officer completing this certificate verifies only to certificate is attached, and not the truthfulness, accuracy, or validity of the	
State of California)	CAPACITY CLAIMED BY SIGNER
County of Santa Clara)	(X) individual signing for oneself
On May 3, 2014, before mappeared Govinda Keshavdas, who proved to me person(s) whose name(s) is/are subscribed to the he/she/they executed the same in his/har/their ausignature(s) on the instrument the person(s), or the executed the instrument.	within instrument and acknowledged to me that uthorized capacity(ies), and that by his/her/their
I certify under PENALTY OF PERJURY under the la paragraph is true and correct.	nws of the State of California that the foregoing
WITNESS my hand and official seal.	KATHERINE G. STOFER Commission # 2111248 Notary Public - California Santa Clara County
Signature of Notary Public	My Comm. Expires Jun 2, 2019
Executed on	Frederic Revenu
A notary public or other officer completing this certificate verifies only t	
certificate is attached, and not the truthfulness, accuracy, or validity of the	nat document.
State of) Country of)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
MITTNIECC my hand	
WITNESS my hand [Printed Name]	
Signature	Date
WITNESS my hand	
[Printed Name]	
Signature	Date

PATENT REEL: 038836 FRAME: 0414

ASSIGNMENT

		receipt of which is hereby acknowledged, I/we
	of 4046 Carracci La	
Xiaojian Yang		rrace, Sunnyvale, CA 94805
Niyati Shah		ter Boulevard, Apt. No. 11, San Jose, CA 95128
		enue, Apt. No. 1, San Francisco, CA 94112
Frederic Revenu	of <u>124 Northam Av</u>	renue, San Carlos, CA 94070
Logic Drive, San Jos throughout the world	e, California 95124, it in my/our invention	, a Delaware corporation, having a place of business at 2100 is successors and assigns, the entire right, title and interest
CIRCUIT		ATION USING CONTROL-SET BASED MERGING JLE-BASED REPLICATION
and all patent applications and exapplications; I/we are invention, and to clai execute all papers used o everything possible expense, in obtaining Commissioner of Patentinana and expense of Patentinana and exp	tions and patents of evextensions thereof, and thorize the above-name im all rights of priority of ul in connection with the to aid said assigners and enforcing patents	patent application on or about the date of this assignment, ery country for said invention, including divisions, reissues, i all rights of priority resulting from the filing of said ed assignee to apply for patents of foreign countries for said without further authorization from me/us; I/we agree to said United States and foreign applications, and generally to e, its successors, assigns and nominees, at its request and is for said invention in all countries; and I/we request the o issue all patents granted for said invention to the above-
		Sabyasachi Das
A notary public or other off- certificate is attached, and n	icer completing this certificate v of the truthfulness, accuracy, or	erifies only the identity of the individual who signed the document to which this validity of that document.
State of California County of Santa Clara) a:)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
whose name(s) is/are executed the same is	Das, who proved to me subscribed to the wind his/her/their authorics.	before me, Katherine G. Stofer, Notary Public, personally ne on the basis of satisfactory evidence to be the person(s) thin instrument and acknowledged to me that he/she/they ized capacity(ies), and that by his/her/their signature(s) on y upon behalf of which the person(s) acted, executed the
I certify under PENA paragraph is true and		ler the laws of the State of California that the foregoing
WITNESS my	hand and official seal.	
Signature of	Notary Public	

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Executed on	······································
	Xiaojian Yang
A notary public or other officer completing this certificate veril certificate is attached, and not the truthfulness, accuracy, or val	fies only the identity of the individual who signed the document to which this idity of that document.
State of California) County of Santa Clara)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
whose name(s) is/are subscribed to the within executed the same in his/her/their authorized	fore me, Katherine G. Stofer, Notary Public, personally on the basis of satisfactory evidence to be the person(s) in instrument and acknowledged to me that he/she/they d capacity(ies), and that by his/her/their signature(s) or upon behalf of which the person(s) acted, executed the
I certify under PENALTY OF PERJURY under paragraph is true and correct.	the laws of the State of California that the foregoing
WITNESS my hand and official seal.	
Signature of Notary Public	
Executed on	
	Niyati Shah
A notary public or other officer completing this certificate verificer is attached, and not the truthfuiness, accuracy, or valid	ies only the identity of the individual who signed the document to which this dity of that document.
State of California) County of Santa Clara)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
whose name(s) is/are subscribed to the within executed the same in his/her/their authorized	fore me, Katherine G. Stofer, Notary Public, personally the basis of satisfactory evidence to be the person(s) in instrument and acknowledged to me that he/she/they disparative(s), and that by his/her/their signature(s) on upon behalf of which the person(s) acted, executed the
certify under PENALTY OF PERJURY under paragraph is true and correct.	the laws of the State of California that the foregoing
WITNESS my hand and official seal.	
Signature of Notary Public	

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	Govinda Keshavdas
A notary public or other officer completing this certificate verifies only the identificate is attached, and not the truthfulness, accuracy, or validity of that doc	stity of the individual who signed the document to which this usuent.
State of California) County of Santa Clara)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
On, before me, Kappeared <u>Govinda Keshavdas</u> , who proved to me on the person(s) whose name(s) is/are subscribed to the with the same in his/her/their authors signature(s) on the instrument the person(s), or the entexecuted the instrument.	in instrument and acknowledged to me that rized capacity(ies), and that by his/her/thei
I certify under PENALTY OF PERJURY under the laws operagraph is true and correct.	of the State of California that the foregoing
WiTNESS my hand and official seal.	
Signature of Notary Public	
C ON O	Frederic Revenu
Executed on Sune 3rd 2516 A notary public or other officer completing this certificate verifies only the ide	ntity of the individual who signed the document to which this
Executed on Sune 3rd 2016	ntity of the individual who signed the document to which this
Anotary public or other officer completing this certificate verifies only the ide certificate is attached, and not the truthfulness, accuracy, or validity of that does state of Leinster) Country of Trelend) WITNESS my hand Ronald E. Plyler [Printed Name]	ntity of the individual who signed the document to which this current. CAPACITY CLAIMED BY SIGNER

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RECORDED: 06/07/2016