### 504129523 12/08/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4176194

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
PAUL R. SCHUMACHER	12/07/2016
KUMAR DEEPAK	12/07/2016
SCOTT JONAS	12/06/2016

#### **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:	15372731

#### **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-5069 US
NAME OF SUBMITTER:	KATHERINE STOFER
SIGNATURE: /Katherine Stofer/	
DATE SIGNED:	12/08/2016

#### **Total Attachments: 4**

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PATENT REEL: 040599 FRAME: 0861

#### **ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, I/we

Paul R. Schumacher	of 821 Longview Avenue, Berthoud, CO 80513
Kumar Deepak	of 5773 Begonia Drive, San Jose, CA 95124
Scott Jonas	of 8139 Dry Creek Circle, Niwot, CO 80503

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

# IMPLEMENTATION AND EVALUATION OF DESIGNS FOR HETEROGENEOUS COMPUTING PLATFORMS WITH HARDWARE ACCELERATION

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 above-named assignee, its successors and assigns.

do everything possible to aid said assignee, its succe expense, in obtaining and enforcing patents for said Commissioner of Patents and Trademarks to issue all named assignee, its successors and assigns.  Executed on	invention in all countries; and I/we request the patents granted for said invention to the above-
A notary public or other officer completing this certificate verifies only the certificate is attached, and not the truthfulness, accumely, or validity of that	identity of the individual who signed the document to which this document.
State of Colorado ) County of )	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
On Dec 12016, before me, Mclinda Brooks, Notary Public, personally appeared Paul R. Schumacher, 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.  WITNESS my hand and official seal.	
Signature of Notary Public	Melinda Ann Brooks Notary Public Stats of Colorado Notary ID: 20104010001 My Commission Expires March 29, 2018

Executed on	, 2016.
	Kumar Deepak
A notary public or other officer completing this certific certificate is attached, and not the truthfulness, secured	rate verifies only the identity of the individual who signed the document to which this y, or validity of that document.
State of California ) County of Santa Clara )	CAPACITY CLAIMED BY SIGNER (X) Individual signing for oneself
appeared <u>Kumar Deepak</u> , who proved t whose name(s) is/are subscribed to the executed the same in his/her/their aut	, before me, Katherine G. Stofer, Notary Public, personally o me on the basis of satisfactory evidence to be the person(s) within instrument and acknowledged to me that he/she/they horized capacity(ies), and that by his/her/their signature(s) on ntity upon behalf of which the person(s) acted, executed the
I certify under PENALTY OF PERJURY paragraph is true and correct.	under the laws of the State of California that the foregoing
WITNESS my hand and official se	eal;
Signature of Notary Public	•••••
Executed on 12-6-2016	
A notary public or other officer completing this certificertificate is attached, and not the truthfulness, accura-	cate verifies only the identity of the individual who signed the document to which this cy, or validity of that document.
State of Colorado County of  On 12/12/2014 personally appeared Scott Jongs, who person(s) whose name(s) is/are subscibe/she/they executed the same in his	CAPACITY CLAIMED BY SIGNER  (X) individual signing for oneself  , before me, Melua Tooks Notary Public, proved to me on the basis of satisfactory evidence to be the ribed to the within instrument and acknowledged to me that sher/their authorized capacity(les), and that by his/her/their son(s), or the entity upon behalf of which the person(s) acted,
WITNESS my hand and official s	Melinda Ann Brooks  Notary Public  State of Colorado  Notary ID: 20104010001  My Commission Expires March 26, 2019

## <u>ASSIGNMENT</u>

For good and valuable consideration, receipt of which is hereby acknowledged, I/we

Paul R. Schumacher	of 821 Longview Avenue,	Berthoud, CO 80513
	of <u>5773 Begonia Drive, Sa</u>	
Scott Jonas	of 8139 Dry Creek Circle,	Niwot, CO 80503
	e, California 95124, its succe	aware corporation, having a place of business at 2100 essors and assigns, the entire right, title and interest
IMPLEMENTAT		DESIGNS FOR HETEROGENEOUS COMPUTING DWARE ACCELERATION
and all patent applicate continuations and exapplications; I/we autinvention, and to claim execute all papers use do everything possible expense, in obtaining Commissioner of Patenamed assignee, its su	tions and patents of every concrensions thereof, and all richorize the above-named assign all rights of priority without the connection with said Under the aid said assignee, its sand enforcing patents for seents and Trademarks to issue	application on or about the date of this assignment, intry for said invention, including divisions, reissues, ghts of priority resulting from the filing of said gnee to apply for patents of foreign countries for said out further authorization from me/us; I/we agree to nited States and foreign applications, and generally to uccessors, assigns and nominees, at its request and aid invention in all countries; and I/we request the all patents granted for said invention to the above-
EACTION OIL		
		Paul R. Schumacher
	cer completing this certificate verifies on at the truthfulness, accuracy, or validity o	y the identity of the individual who signed the document to which this f that document.
State of Colorado County of	) )	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
personally appeared <u>F</u> the person(s) whose rehe/she/they execute signature(s) on the inexecuted the instrument	Paul R. Schumacher, who promame(s) is/are subscribed to dishe same in his/her/their strument the person(s), or t	me,, Notary Public, wed to me on the basis of satisfactory evidence to be the within instrument and acknowledged to me that authorized capacity(ies), and that by his/her/their he entity upon behalf of which the person(s) acted,

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Signature of Notary Public

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Executed on Pec 7, 2016	, 2016.
	Essal Land
	Kumar Deepak
A notary public or other officer completing this certificate verifies o certificate is attached, and not the truthfulness, accuracy, or validity	nly the identity of the individual who signed the document to which this of that document.
State of California ) County of Santa Clara )	CAPACITY CLAIMED BY SIGNER (X) Individual signing for oneself
appeared <u>Kumar Deepak</u> , who proved to me on whose name(s) is/ave subscribed to the within in executed the same in his/her/their authorized contains a sam	e me, Katherine G. Stofer, Notary Public, personally the basis of satisfactory evidence to be the person(s) instrument and acknowledged to me that he/she/they apacity(les), and that by his/her/their signature(s) on behalf of which the person(s) acted, executed the
I certify under PENALTY OF PERJURY under the paragraph is true and correct.	e laws of the State of California that the foregoing
WITNESS my hand and official seal.  Signature of Notary Public	KATHERINE G. STOFER Commission # 2111248 Notary Public - California Santa Clara County My Comm. Expires Jun 2, 2019
Executed on	, 2016.
	Scott Jonas
A notary public or other officer completing this certificate verifies of certificate is attached, and not the truthfulness, accuracy, or validity	only the identity of the individual who signed the document to which this of that document.
State of Colorado ) County of )	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
person(s) whose name(s) is/are subscribed to the/she/they executed the same in his/her/thei	re me,, Notary Public, o me on the basis of satisfactory evidence to be the he within instrument and acknowledged to me that ir authorized capacity(ies), and that by his/her/their the entity upon behalf of which the person(s) acted,
WITNESS my hand and official seal.	
Signature of Notary Public	

PATENT REEL: 040599 FRAME: 0865

**RECORDED: 12/08/2016**