

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4176194

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
PAUL R. SCHUMACHER	12/07/2016
KUMAR DEEPAK	12/07/2016
SCOTT JONAS	12/06/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	XILINX, INC.
<b>Street Address:</b>	2100 LOGIC DRIVE
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95124
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15372731
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)377-6137
<i>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.</i>	
<b>Phone:</b>	408-879-4185
<b>Email:</b>	xilinxpl@xilinx.com
<b>Correspondent Name:</b>	XILINX, INC.
<b>Address Line 1:</b>	2100 LOGIC DR
<b>Address Line 2:</b>	ATTN: LEGAL DEPT
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95124
<b>ATTORNEY DOCKET NUMBER:</b>	X-5069 US
<b>NAME OF SUBMITTER:</b>	KATHERINE STOFER
<b>SIGNATURE:</b>	/Katherine Stofer/
<b>DATE SIGNED:</b>	12/08/2016
<b>Total Attachments: 4</b>	
source=X_5069_US_Assign_efiled#page1.tif	
source=X_5069_US_Assign_efiled#page2.tif	
source=X_5069_US_Assign_efiled#page3.tif	



ASSIGNMENT

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

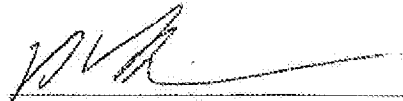
Paul R. Schumacher of 821 Longview Avenue, Berthoud, CO 80513  
Kumar Deepak of 5773 Begonia Drive, San Jose, CA 95124  
Scott Ionas of 8139 Dry Creek Circle, Niwot, CO 80503

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.

Executed on December 7, 2016.



Paul R. Schumacher

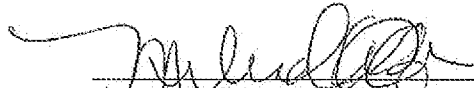
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of Colorado )  
County of )

CAPACITY CLAIMED BY SIGNER  
 individual signing for oneself

On Dec 7, 2016, before me, Melinda 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  
 State of Colorado  
 Notary ID: 20104010001  
 My Commission Expires March 29, 2018

Executed on \_\_\_\_\_, 2016.

Kumar Deepak

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 \_\_\_\_\_, before me, Katherine G. Stofer, Notary Public, personally appeared Kumar Deepak, 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

Executed on 12-6-2016, 2016.

Scott Jonas  
Scott Jonas

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 Colorado )  
County of )

CAPACITY CLAIMED BY SIGNER  
(X) Individual signing for oneself

On 12/6/2016, before me, Melinda Brooks Notary Public, personally appeared Scott Jonas, 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.

Melinda Brooks  
Signature of Notary Public

Melinda Ann Brooks  
Notary Public  
State of Colorado  
Notary ID: 20104010001  
My Commission Expires March 29, 2018

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.

Executed on \_\_\_\_\_, 2016.

\_\_\_\_\_  
Paul R. Schumacher

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 Colorado     )  
County of             )

CAPACITY CLAIMED BY SIGNER  
(X) individual signing for oneself

On \_\_\_\_\_, before me, \_\_\_\_\_, 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

Executed on Dec 7, 2016, 2016.

Kumar Deepak  
Kumar Deepak

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 )

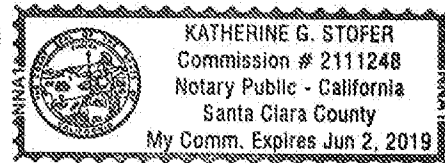
CAPACITY CLAIMED BY SIGNER  
(X) individual signing for oneself

On December 7, 2016, before me, Katherine G. Stofer, Notary Public, personally appeared Kumar Deepak, 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.

Katherine G. Stofer  
Signature of Notary Public



Executed on \_\_\_\_\_, 2016.

\_\_\_\_\_  
Scott Jonas

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 Colorado )  
County of )

CAPACITY CLAIMED BY SIGNER  
(X) individual signing for oneself

On \_\_\_\_\_, before me, \_\_\_\_\_, Notary Public, personally appeared Scott Jonas, 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