503890176 06/27/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ARIANNE B. ROLDAN	06/20/2016
HSUNG JAI IM	06/17/2016

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:	15193635

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-4877 US
NAME OF SUBMITTER:	KATHERINE STOFER
SIGNATURE:	/Katherine Stofer/
DATE SIGNED:	06/27/2016

Total Attachments: 4

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> **PATENT** 503890176

REEL: 039018 FRAME: 0887

ASSIGNMENT

For good and valuable consideration, receipt of w Arianne B. Roldan of Block 607 Elias Ro	ad 03-188, Singapore 510607
Hsung Jai Im of 7175 Martwood W	ay, San Jose, CA 95120
hereby sell, assign and transfer to Xilinx, Inc., a Delawar Logic Drive, San Jose, California 95124, its successors throughout the world in my/our invention	
ENCODING SCHEME FOR PROCESSING PUL SIGNAL	
for which I/we will execute a United States patent appliand all patent applications and patents of every country continuations and extensions thereof, and all rights applications; I/we authorize the above-named assignee invention, and to claim all rights of priority without fu execute all papers useful in connection with said United do everything possible to aid said assignee, its successexpense, in obtaining and enforcing patents for said it Commissioner of Patents and Trademarks to issue all paneed assignee, its successors and assigns.	for said invention, including divisions, reissues, of priority resulting from the filing of said to apply for patents of foreign countries for said or authorization from me/us; I/we agree to States and foreign applications, and generally to sors, assigns and nominees, at its request and ovention in all countries; and I/we request the
Executed on	6. Arianne B. Roldan
A notary public or other officer completing this certificate verifies only the identificate is attached, and not the trithfulness, accuracy, or validity of that determine the control of	
State of Singapore ; Country of Singapore)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
WITNESS my hand Zhao Hongyuan. [Printed Name] Zhao Hongyuan. Signature	Date Jo June 2016
WITNESS my hand KOAY CAIN YANG [Printed Name] Signature	20 June 2016 Date
· · · · · · · · · · · · · · · · · · ·	

Executed on	, 2016.
	Hsung Jai Im
A notary public or other officer completing this certificate veri certificate is attached, and not the truthfulness, accuracy, or va	fies only the identity of the individual who signed the document to which this lidity of that document.
State of California) County of Santa Clara)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
appeared <u>Hsung Jai Im</u> , who proved to me of whose name(s) is/are subscribed to the with executed the same in his/her/their authorized	efore 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/theyed capacity(ies), and that by his/her/their signature(s) on 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	

ASSIGNMENT

		eceipt of which is hereby acknowledged, I/we
Arianne B. Roldan Hsung Jai Im		7 Elias Road 03-188, Singapore 510607 rtwood Way, San Jose, CA 95120
hereby sell, assign and Logic Drive, San Jose throughout the world i	transfer to Xilinx, Inc., , California 95124, its n my/our invention	a Delaware corporation, having a place of business at 2100 successors and assigns, the entire right, title and interest ING PULSE-AMPLITUDE MODULATED (PAM) SIGNALS
and all patent applicat continuations and ex applications; I/we aut invention, and to clain execute all papers used do everything possible expense, in obtaining	ions and patents of ever tensions thereof, and horize the above-named in all rights of priority ful in connection with sa e to aid said assignee, and enforcing patents ints and Trademarks to	patent application on or about the date of this assignment, by country for said invention, including divisions, reissues, all rights of priority resulting from the filing of said assignee to apply for patents of foreign countries for said without further authorization from me/us; I/we agree to id United States and foreign applications, and generally to its successors, assigns and nominees, at its request and for said invention in all countries; and I/we request the issue all patents granted for said invention to the above-
Executed on		, 2016.
		Arianne B. Roldan
A notary public or other offic	er completing this certificate ven	fies only the identity of the individual who signed the document to which this
certificate is attached, and no	the truthfulness, accuracy, or va	lidity of that document.
State of Country of	the truthfuiness, accuracy, or va	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
State of)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
State of Country of)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
State of Country of WITNESS my hand)	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself
State of Country of WITNESS my hand Signature	Printed Nam	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself e] Date
State of Country of WITNESS my hand Signature	Printed Nam	CAPACITY CLAIMED BY SIGNER (X) individual signing for oneself e] Date

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Executed on	016.
	Court
	Hsung Jai Im
A notary public or other officer completing this certificate verifies only the certificate is attached, and not the truthfulness, accuracy, or validity of that	
State of California)	CAPACITY CLAIMED BY SIGNER
County of Santa Clara)	(X) individual signing for oneself
On June 17, 2016, before me appeared <u>Hsung Jai Im</u> , who proved to me on the b whose name(s) is/age subscribed to the within instruexecuted the same in his/her/thgir authorized capacithe instrument the person(s) or the entity upon be instrument.	ment and acknowledged to me that he/shæ/they ity(iès), and that by his/her/their signature(s) on
I certify under PENALTY OF PERJURY under the law paragraph is true and correct.	ws 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