PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
GORDON RAYMOND CHIU	08/13/2014
SEAN SHAU-TU LU	08/19/2014
WARREN NORDYKE	08/14/2014
BONNIE I. WANG	08/28/2014
WEIZHONG XU	08/16/2014

RECEIVING PARTY DATA

Name:	Altera Corporation
Street Address:	101 Innovation Drive
City:	San Jose
State/Country:	CALIFORNIA
Postal Code:	95134

PROPERTY NUMBERS Total: 1

Property Type	Number					
Application Number:	14473987					

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	A04120
NAME OF SUBMITTER:	VICTORIA AVALOS
SIGNATURE:	/Victoria Avalos/
DATE SIGNED:	08/29/2014

Total Attachments: 6

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PATENT 502957618 REEL: 033643 FRAME: 0530

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PATENT REEL: 033643 FRAME: 0531

ASSIGNMENT

WHEREAS, We, Gordon Raymond Chiu, Sean Shau-Tu Lu, Warren Nordyke, Bonnie I. Wang, and Weizhong Xu, residing respectively in North York, Ontario, San Jose, California, Cupertino, California, Cupertino, California, and Cupertino, California, have made an invention entitled:

INTEGRATED CIRCUITS HAVING INPUT-OUTPUT CIRCUITS WITH DEDICATED MEMORY CONTROLLER CIRCUITRY

and

(1) are about to make an application for United States
Letters Patent therefor, the same having been executed by
us on even date herewith

OR

(2) have made an application for United States Letters	
Patent therefor, the same having been filed on	
() under Application No. (), in	
connection with which we hereby authorize and request the	:
assignee's attorneys associated with Customer Number 4585	1
to insert within the foregoing parentheses the filing dat	е
and Application No. of said application when known; and	

WHEREAS, ALTERA CORPORATION, a corporation organized and existing under the laws of the State of California and having an address of 101 Innovation Drive, San Jose, California 95134, is desirous of acquiring the entire interest in said invention, said United States patent application and in any Letters Patent which may issue thereon;

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NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto the said ALTERA CORPORATION, its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any continuations, continuations-in-part and divisions thereof, and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same;

and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said ALTERA CORPORATION as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

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Aug 13, 2014	M.
J Date	Gordon Raymond Chiu
Date	Sean Shau-Tu Lu
Date	Mannan Navdyska
Dace	Warren Nordyke
Date	Bonnie I. Wang
AFA ASSASSINA AND A SASSASSINA AND A SAS	
Date	Weizhong Xu

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

Date	Gordon Raymond Chiu
8/19/2014	Seen La tu Lu
Date	Sean Shau-Tu Lu
8-14-2014 Date	Warren Nordyke
Date	Bonnie I. Wang
Date	Weizhong Xu

Date

		IN	TESTI	ONY	WHERE	OF, w	e ha	ve	hereunto	signed	our
names	on	the	dates	ind	icated	here	inaf	ter	: .		
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	Da	te				Bon	nie :	I.	Wang		

Weizhong Xu

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names	on	the	dates	ind	cated	hei	reir	nafter	r.		

Date	Gordon Raymond Chiu
Date	Sean Shau-Tu Lu
Date '	Warren Nordyke
Date	Bonnie I. Wang
Dace	Bommie 1. wang
8/16/2014 Date	/ Yn
, Data .	Weizhong Xu