HEET



Commissioner of Patents:

Please record the attached document.

- 1. Name of conveying party:
 - a) Hong Shi
 - b) Yuanlin Xie
 - c) Tarun Verma
- 2. Name and address of receiving party:
 - a) Name: Altera Corporation

Address: 101 Innovation Drive, San Jose, California 95134

3.	Nature of conveyance: Assignment Security Agreement Other		Merger Change of Name License Agreement		
	Execution Date: June 27, 2006				
4.	Application Number or Patent Number: Unknown				
	The title of the application is:				

ON-PACKAGE EDGE-MOUNT POWER DECOUPLING AND IMPLEMENTATION WITH NOVEL SUBSTRATE DESIGN FOR FPGA AND ASIC DEVICES

5. Please send all correspondence concerning this document to:

Beyer Weaver & Thomas, LLP Attn: Altera P.O. Box 70250 Oakland, CA 94612-0250 Customer Number: 51501

- 6. Total number of applications and patents involved: 1
- 7. Total fee (37 CFR 3.41): \$40.00

Date:

\boxtimes	Enclosed.		
	Charge to Deposit Account No. 500388 (Order No.).		
\boxtimes	Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. ALTRP213)		
	(Order No. ALTRP213)	/	1
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June 28	, 2006		/

Godfrey K. Kwan Registration No. 46,850

Attorney Docket No. ALTRP213/A2285

(Revised 9/03)

ASSIGNMENT OF PATENT APPLICATION

Whereas, I, an undersigned inventor have invented certain new and useful improvements as set forth in the patent application entitled:

ON-PACKAGE EDGE-MOUNT POWER DECOUPLING AND IMPLEMENTATION WITH NOVEL SUBSTRATE DESIGN FOR FPGA AND ASIC DEVICES

(Atty. Docket No. ALTRP213/A2285), (check one)						
for which I have executed a U.S. patent application on even date herewith. (Accompanying which bears U.S. application No. which is a U.S. provisional application. (Accompanying)						
For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I an undersigned inventor hereby:						
1) Sell, assign and transfer to <u>Altera Corporation</u> , a Delaware corporation having a place of business at 101 Innovation Drive, San Jose, California 95134 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents (including foreign patents and the right to claim priority) granted upon, the above-referenced application.						
2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.						
3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.						
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.						
5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.						
6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.						
Signed on the date indicated beside my signature.						
1) Signature: Date: 6/2 7/06 Typed Name: Heng Shi						
162/1						
2) Signature: Typed Name: Yuandin Xie Date: 6/1/66						
T/a						
3) Signature: Date: Date						

Revised 06/01, Assign US or Foreign No Notary

PATENT REEL: 018062 FRAME: 0201

ASSIGNMENT OF PATENT APPLICATION

Whereas, I, an undersigned inventor have invented certain new and useful improvements as set forth in the patent application entitled:

ON-PACKAGE EDGE-MOUNT POWER DECOUPLING AND IMPLEMENTATION WITH NOVEL SUBSTRATE DESIGN FOR FPGA AND ASIC DEVICES

(Atty.	Docket No. 2	ALTRP213/	A2285), (check or	ne)			
	which be	ears U.S. app	cuted a U.S. pate plication No. isional application		n even date herewith. (A	(ccompanying)	
ackno			onsideration, the l inventor hereby		iciency of which is here	by:	
and in	ess at 101 Inno aterest in any a as (including fo	ovation Driv and all impro	e, San Jose, Cali evements and inv	fornia 95134 ("z entions disclose	vare corporation having ASSIGNEE"), the entire of in, applications based granted upon, the above	e right, title	
2) resulti reissu	Authorize and a from said a thereof to the	application of	or any division, c	of Patents to issontinuation, sub	sue any and all Letters P stitute, renewal, re-exar	atents nination or	
applic	m any acts wh ation, as well	iich are rease as any deriv	onably necessary	in connection was thereof, foreign	at the ASSIGNEE's exp with the prosecution of s in applications based the	aid	
4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.							
5) contra	Warrant and ct, or understa	represent th nding that c	at I have not ente onflicts with this	ered, and will no assignment.	t enter into any assignm	ient,	
6) with re	Authorize an ecordal of this	d request my assignment.	y attorney/agent	to insert above t	he application No. in or	der to assist	
	Signed on the	e date indica	ted beside my si	gnature.			
1)	Signature: Typed Name:	Hong Shi	A ST		Date: $\frac{6/27}{}$	106	
2)	Signature: Typed Name:	Yuanlin Xie		74-	Date: 6/27/06		
3)	Signature: Typed Name:	Tarun Verma	leng		Date: Date		

PATENT REEL: 018062 FRAME: 0202

RECORDED: 06/28/2006

Revised 06/01, Assign US or Foreign No Notary