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1. Name of conveying party(ies)	2. Name and address of receiving party(ies)
Hong Shi Yuanlin John Xie	Name: Altera Corporation
(,0	Internal Address:
Additional name(s) of conveying party(ies) attached? Yes \( \subseteq \)	(i) (ii)
3. Nature of conveyance/Execution Date(s):	Street Address: 101 Innovation Drive
Execution Date(s) 11/16/05	- L
✓ Assignment	
Security Agreement Change of Name	City: San Jose
Joint Research Agreement	State: California
Government Interest Assignment Executive Order 9424, Confirmatory License	Country: United States of America Zip: 95134
Other	
	Additional name(s) & address(es) attached? Yes V No
A. Patent Application No.(s)	s document is being filed together with a new application.  B. Patent No.(s)
8/2001 AKELECH1 00000030 11285912	
40.00 DP	
Additional numbers attached?	
5. Name and address to whom correspondence	6. Total number of applications and patents
concerning document should be mailed:	involved: 1
Name: Steven J. Cahill	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00
Internal Address:	Authorized to be charged by credit card
	Authorized to be charged to deposit account
Street Address: 340 Laurel Street	Enclosed  None required (government interest not affecting title)
City Monto Park	8. Payment Information
City: Menlo Park	a. Credit Card Last 4 Numbers 0052
State: California Zip: 94025	Expiration Date <u>07/2007</u>
Phone Number: 650-242-8300	b. Deposit Account Number
Fax Number: 650-321-2465 Email Address:	Authorized User Name
9. Signature: Steven J. Cahill Signature	November 23, 2005 Date
Steven J. Cahill	Total number of pages including cover

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

Name of Person Signing

PATENT REEL: 017281 FRAME: 0309

sheet, attachments, and documents:

Attorney Docket No.: 101-00300US Client Reference No.: A2101

## ASSIGNMENT OF PATENT APPLICATION

**JOINT** 

WHEREAS, Hong Shi of 2250 Monroe Street #322, Santa Clara, CA 95050; and Yuanlin John Xie of 39575 Benavente Avenue, Fremont, CA 94539; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: Techniques for Optimizing Electrical Performance and Layout

Efficiency in Connectors With Via Placement and Routing

Date(s) of execution of Declaration: November 16, 2005

Filing Date: November 23, 2005

Application No.: ; and

WHEREAS, Altera Corporation of 101 Innovation Drive, San Jose, CA 95134, a corporation of Delaware, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request The Law Office of Steven J. Cahill, 340 Laurel St., Menlo Park, CA 94025, to insert herein above the application number, the dates of execution of Declaration, and filing date of said application when known.

PATENT REEL: 017281 FRAME: 0310 Assignment

Attorney Docket No.: 101-00300US

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IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

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RECORDED: 11/23/2005