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Wilson Wong; Sergey Shumarayev; Simardeep Maanget; Thungoc M. Tran; and Tim Tri Hoang	Name: Altera Corporation
	Internal Address:
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Additional name(s) of conveying party(ies) attached?  Yes  Xong San Additional name(s) of conveyance/Execution Date(s):	
8/9/06; 8/11/06; 8/14/06; 8/14/06	Street Address: 101 Innovation Drive
Execution Date(s)and 8/14/06	
Assignment  Merger	City: San Jose
Security Agreement Change of Name	
Joint Research Agreement	State: CA
Government Interest Assignment	Country: USA Zip: 95134
Executive Order 9424, Confirmatory License	
Other	
A. Patent Application No.(s) Attorney Docket No. 000174-0473-101 (A2347) Additional numb	Additional name(s) & address(es) attached? ☐ Yes ⊠ No This document is being filed together with a new application B. Patent No.(s) ers attached? ☐ Yes ⊠ No
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A. Patent Application No.(s) Attorney Docket No. 000174-0473-101 (A2347) Additional numb 5. Name and address to whom correspondence concerning document should be mailed: Name: Fish & Neave IP Group, Ropes & Gray LLP Internal Address: Street Address: 1251 Avenue of the Americas	This document is being filed together with a new application         B. Patent No.(s)         ers attached?       Yes 🖉 NO         6. Total number of applications and patents involved:         1         7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00         Authorized to be charged by credit card         Authorized to be charged to deposit account         Enclosed         None required (government interest not affecting title)         8. Payment Information         a. Credit Card
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A. Patent Application No.(s) Attorney Docket No. 000174-0473-101 (A2347) Additional numb 5. Name and address to whom correspondence concerning document should be mailed: Name: Fish & Neave IP Group, Ropes & Gray LLP Internal Address: Street Address: 1251 Avenue of the Americas City: New York State: NYZip: 10020	This document is being filed together with a new application         B. Patent No.(s)         ers attached?       Yes 🖉 NO         6. Total number of applications and patents involved:         1         7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00         Authorized to be charged by credit card         Authorized to be charged by credit card         Enclosed         None required (government interest not affecting title)         8. Payment Information         a. Credit Card         Last 4 Numbers         06-1075, Order No.         b. Deposit Account Number 000174-0473-101
A. Patent Application No.(s) Attorney Docket No. 000174-0473-101 (A2347) Additional numb 5. Name and address to whom correspondence concerning document should be mailed: Name: Fish & Neave IP Group, Ropes & Gray LLP Internal Address: Street Address: 1251 Avenue of the Americas City: New York State: NY Zip: 10020 Phone Number: 212.596.9000	This document is being filed together with a new application         B. Patent No.(s)         ers attached?       Yes 🖉 NO         6. Total number of applications and patents involved:         1         7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00         Authorized to be charged by credit card         Authorized to be charged by credit card         Enclosed         None required (government interest not affecting title)         8. Payment Information         a. Credit Card         Last 4 Numbers         06-1075, Order No.
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Docket No. 000174-0473-101 (A2347)

## ASSIGNMENT

WHEREAS, we,

- Wilson Wong;
- (2) Sergey Shumarayev;
- (3) Simardeep Maangat;
- (4) Thungoc M. Tran; and
- (5) Tim Tri Hoang

residing, respectively, at

- (1) 21 Talbert Ct, San Francisco, CA 94134;
- (2) 2328 Rocky Point Court, San Leandro, CA 94579;
- (3) 745 S. Bernardo Ave, Apt 266, Sunnyvale, CA 94087;
- (4) 2960 Creek Point Dr, San Jose, CA 95133; and
- (5) 5407 Carls Ct, San Jose, CA 95123

have made an invention entitled:

SIGNAL AMPLITUDE DETECTION CIRCUITRY WITHOUT PATTERN

DEPENDENCIES FOR HIGH-SPEED SERIAL LINKS and are about to make application for United States Letters Patent therefor, the same having been executed by us on even dates herewith; and

WHEREAS, <u>Altera Corporation</u>, a corporation organized and existing under the laws of <u>Delaware</u> and having an office and place of business at <u>101 Innovation Drive</u>, <u>San Jose</u>, <u>CA</u> <u>95134</u>, 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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EXPRESS MAIL LABEL NO. EV669677101 PATENT REEL: 018222 FRAME: 0209

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to us paid, and other good and valuable consideration, the receipt and sufficiency of which are 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 application, including any continuations and divisions thereof, and any substitute applications therefor, 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 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 otherwise to give full effect to and perfect the rights of the assignee under this Assignment.

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## PATENT REEL: 018222 FRAME: 0210

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

8/9/06

8[[[00

(1) Wilson Wong (2)Shumarayev

08/14/06

(3) Simardeep Maangat

8/14/06 Date

8/14/06 Date

(4) Thungoc M. Tran

Tim Tri Hoang (4)

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**RECORDED: 08/22/2006**