Form <b>PTO-1595</b> (Rev. 03/05) OMB No. 0651-0027 (exp. 6/30/2005)	U.S. DEPARTMENT OF COM United States Patent and Tradema	
	Jocuments or the new address(es) be	elow.
I. Name of conveying party(ies)	2. Name and address of receiving party(ies)	0
Tim Tri Hoang;	Name: Altera Corporation	Ĕģ.
Sergey Shumarayev; and	Internal Address:	
Wilson Wong		- SIO
dditional name(s) of conveying party(ies) attached?  Yes  N	No	<del>- 18</del>
3. Nature of conveyance/Execution Date(s):	Street Address: 101 Innovation Drive	
Execution Date(s) 08/24/06; 08/16/06; and 08/23/06		
⊠ Assignment ☐ Merger		
☐ Security Agreement ☐ Change of Name	City: San Jose	
☐ Joint Research Agreement	State: CA	
Government Interest Assignment	Country: <u>USA</u> Zip: <u>95134</u>	
Executive Order 9424, Confirmatory License		
Other	Additional conservation of additional content of the second of the secon	⊠ Na
	_ Additional name(s) & address(es) attached? ☐ Yes nis document is being filed together with a new app	
	Execution date(s): 08/24/06; 08/16/06; and 08/	/23/06
A. Patent Application No.(s)	B. Patent No.(s)	
Additional numbe	rs attached? 🗌 Yes 🔯 NO	
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1	
Name: Fish & Neave IP Group, Ropes & Gray LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00	
Internal Address:	_	
	☑ Authorized to be charged to deposit account	
Street Address: 1251 Avenue of the Americas	☐ Enclosed	
	☐ None required (government interest not affectir	ng title)
City: New York	8. Payment Information	
	a. Credit Card Last 4 Numbers	
State: NY Zip: 10020	Expiration Date	
	06-1075, Order b. Deposit Account Number 000174-0472-1	A L
Phone Number: 212 596 9000	TO DECION ACCOUNT NUMBER WAS A SECOND	
Phone Number: 212.596.9000	_ b. Deposit Account Number 000174-0472-10	
Phone Number: 212.596.9000  Fax Number: 212.596.9090  Email Address: robert.jackson@ropesgray.com	Authorized User Name Fish & Neave IP (	01

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
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Name Of Person Signing

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Robert R. Jackson (Reg. No. 26,183)

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Total number of pages including cover

Sheet, attachments, and documents:

Date

3

PATENT REEL: 018264 FRAME: 0060

## ASSIGNMENT

WHEREAS, we,

- Tim Tri Hoang;
- (2) Sergey Shumarayev; and
- (3) Wilson Wong;

residing, respectively, at

- (1) 5407 Carls Ct., San Jose, CA 95123;
- (2) 2328 Rocky Point Ct., San Leandro, CA 94579; and
- (3) 21 Talbert Ct., San Francisco, CA 94134;

have made an invention entitled:

WIDE OPERATING-FREQUENCY RANGE VOLTAGE CONTROLLED OSCILLATORS 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 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;

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

PATENT REEL: 018264 FRAME: 0061

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.

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