ر _ 0 0 Express Mail Label No. EM124993808US	U.S. PTO Docket No. 000174-0542-101
Comp PTO-1595 (Rev. 03/05) OMB No. 0651-0027 (exp. 6/30/20C 1034973(U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office
To the Director of the U.S. Patent and Trademark Office: Plea	ise record the attached documents or the new address(es) below.
 Name of conveying party(ies) Weiqi Ding Sergey Shumarayev Wilson Wong Thungoc M. Tran 	2. Name and address of receiving party(ies) Name: Altera Corporation Internal Address:
Additional name(s) of conveying party(ies) attached? Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s) 1) 3/24/08; 2) 4/7/08; 3) 4/1/08; 4) 4/2/08	Street Address: 101 Innovation Drive
Assignment Merger Security Agreement Change of Name	City: <u>San Jose</u>
Joint Research Agreement	State: CA
Government Interest Assignment	Country: USA Zip: 95134
Executive Order 9424, Confirmatory License	21p. <u>30134</u>
□ Other	Additional name(s) & address(es) attached? 🗌 Yes 🔀 No
	s document is being filed together with a new application ecution date(s): 1) 3/24/08; 2) 4/7/08; 3) 4/1/08; 4) 4/2/08
A. Patent Application No.(s)	B. Patent No.(s)
Additional numbers	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: Ropes & Gray LLP	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Internal Address: Robert R. Jackson, Esq.	Authorized to be charged by credit card
	\boxtimes Authorized to be charged to deposit account
Street Address: 1211 Avenue of the Americas	
	None required (government interest not affecting title)
	8. Payment Information
City: New York	a. Credit Card Last 4 Numbers
State: <u>NY</u> Zip: <u>10036</u>	Expiration Date b. Deposit Account Number 06-1075, Order No. 000174-0542-101
Phone Number: <u>212.596.9000</u>	
Fax Number: 212.596.9090	Authorized User Name Ropes & Gray LLP 1288
Email Address: robert.jackson@ropesgray.com	01 FC:8021 40.08 DA
9. Signature: Nobert Chilo	April 9, 2008 Date
Signature	Total number of pages including cover 3
Robert R. Jackson (Reg. No. 26,183) Name Of Person Signing	Sheet, attachments, and documents:
Name Of Person Signing	

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PATENT REEL: 020822 FRAME: 0318 U.S. PTO 12/082343 04/09/2008

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ASSIGNMENT

Whereas we, Weiqi Ding, Sergey Shumarayev, Wilson Wong, and Thungoc M. Tran, respectively residing at 44333 Parkmeadow Drive, Fremont, California 94539; 12501 Corbetta Lane, Los Altos Hills, California 94022; 21 Talbert Court, San Francisco, California 94134; and 2960 Creek Point Drive, San Jose, California 95133, have made an invention in:

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

WHEREAS, ALTERA CORPORATION, a corporation organized and existing under the laws of Delaware and having an office and place of business at 101 Innovation Drive, San Jose, California 95134-1941 is desirous of acquiring the entire interest in said invention, said United States patent application and 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 each of us paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each of us does 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 and divisions thereof, and any substitute applications therefor, and any patents which may issue thereon, and any reissues of the same, and including the right to claim priority under the International Convention based on said patent application; and all right, title and interest in and to every patent

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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 each of us hereby authorizes and requests 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 each of us further agrees 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, each of us has hereunto signed his name and affixed his seal on the date indicated hereinafter.

3/24/2008

407/08

4/1/08

4/2/08

Shumarayev

Vilon W

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RECORDED: 04/09/2008