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U.S. DEPARTMENT OF COMMERCE

OMB No. 0651-0027 (exp. 6/30/2008) United States Patent and Trademark Office 103091455 PAIENIS UNLY To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below. 1. Name of conveying party(ies) 2. Name and address of receiving party(ies) Hugh Sungki O Name: Altera Corporation Samit Sengupta ъ. 4 Joseph Michael Ingino, Jr. Internal Address: Additional name(s) of conveying party(ies) attached? Yes 🗸 No 3. Nature of conveyance/Execution Date(s): Street Address: 101 Innovation Drive Execution Date(s) 08/26/05; 08/29/05; 09/15/05 ✓ Assignment Merger City: San Jose Security Agreement Change of Name Joint Research Agreement State: California Government Interest Assignment Country: United States of America Zip: 95134 Executive Order 9424, Confirmatory License Other Additional name(s) & address(es) attached? ☐ Yes 🗹 No 4. Application or patent number(s): ✓ This document is being filed together with a new application. A. Patent Application No.(s) B. Patent No.(s) 09/23/200 STEUMEL1 00000078 11231641 40.00 OP 04 FC:802 Additional numbers attached? Yes ✓ No 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 Enclosed Street Address: 340 Laurel Street None required (government interest not affecting title) 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: Authorized User Name Email Address: eecspatents@yahoo.com 9. Signature: September 21, 2005

> 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

**Signature** 

Steven J. Cahill

Name of Person Signing

**PATENT** REEL: 017027 FRAME: 0549

Date

Total number of pages including cover

sheet, attachments, and documents:

Attorney Docket No.: 101-00200US Client Reference No.: A2075

## ASSIGNMENT OF PATENT APPLICATION

**JOINT** 

WHEREAS, Hugh Sungki O of 117 King Ave., Fremont, CA 94536; Samit Sengupta of 1573 Thornbriar Drive, San Jose, CA 95131; and Joseph Michael Ingino, Jr. of 10566 Creston Dr., Los Altos, CA 94024; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the belowidentified application for United States Letters Patent:

Title of Invention:

Techniques for Monitoring and Replacing Circuits to Maintain

High Performance

Date(s) of execution of Declaration: August 26, 2005; August 29, 2005; and

September 15, 2005

Filing Date:

September 21, 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: 017027 FRAME: 0550

A	ssignment

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

Dated: \$/26/65

Hugh Sungki O

Dated:

8/29/05

Samit Sengueta

Dated: 9/15/0

Joseph Michael Ingino Ji

**RECORDED: 09/21/2005**