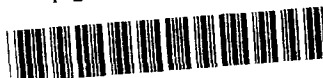


10-19-2004

ney Docket No. 015114-072700U

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

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10960302



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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)/Execution Date(s):

Darren van Wageningen
Boon Jin Ang

Execution Date(s) October 4, 2004 and October 1, 2004

Additional name(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies)

Name: Altera Corporation

Internal Address: _____

Street Address: 101 Innovation Drive

City: San Jose

State: CA

Country: USA

Zip: 95134

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

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)

Additional numbers attached? Yes No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Tyrome Y. Brown

Internal Address: _____

TOWNSEND AND TOWNSEND AND CREW LLP

Street Address: Two Embarcadero Center,
Eighth Floor

City: San Francisco

State: California Zip: 94111-3834

Phone Number: (415) 576-0200

Fax Number: (415) 576-0300

Email Address: tyb@townsend.com

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 Last 4 numbers _____
Expiration Date _____

b. Deposit Account Number 20-1430

Authorized User Name Townsend and Townsend
and Crew LLP

9. Signature:

Tyrome Y. Brown
Signature

October 6, 2004
Date

Tyrome Y. Brown

Name of Person Signing Atty. Reg. No. 46,580

Total number of pages including cover sheet, attachments, and documents:

3

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, VA 22313-1450 60326233 v1

10/18/2004 6TOW11 00000027 201430 10960302
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PATENT
REEL: 015883 FRAME: 0767

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Darren van Wageningen of 282 Sandhill Road, Kanata, Ontario, K2K 2V7 Canada; Boon Jin Ang of 3, Lorong Molek Satu, Bagan Ajam, Butterworth, Penang, 13000 Malaysia 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 DEBUGGING HARD
INTELLECTUAL PROPERTY BLOCKS**

Date(s) of execution of Declaration:

Filing Date:

Application No.: ; and

WHEREAS, Altera Corporation, a corporation of the state of Delaware, located at 101 Innovation Drive, San Jose, CA 95134, 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 Townsend and Townsend and Crew LLP, Two Embarcadero Center, Eighth Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

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

Dated: October 4th, 2004


Darren van Wageningen

Dated: _____

Boon Jin Ang

60314296 v1

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Darren van Wageningen of 282 Sandhill Road, Kanata, Ontario, K2K 2V7 Canada; Boon Jin Ang of 3, Lorong Molek Satu, Bagan Ajam, Butterworth, Penang, 13000 Malaysia 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 DEBUGGING HARD
INTELLECTUAL PROPERTY BLOCKS**

Date(s) of execution of Declaration:

Filing Date:

Application No.: ; and

WHEREAS, Altera Corporation, a corporation of the state of Delaware, located at 101 Innovation Drive, San Jose, CA 95134, 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.

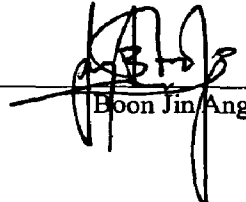
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IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: _____

Darren van Wageningen

Dated: 10/1/04


Boon Jin Ang

60314296 v1