## Attorney Docket No. 015114-054911US Client Reference A1250

| Form <b>PTO-1595</b><br>(Rev. 10-02)<br>OMB No. 0651-0027 (exp. 5/31/2002)   |                                  |  | Recordation Form Cover Sheet PATENTS ONLY  |                               |
|--|----------------------------------|--|--|-------------------------------|
| 1. Name of   |                                  | ommissioner of Patents and Trademarks.   | Please record the attached original docume  2. Name and address of receiving pa Name: Altera Corporation Internal Address: Street Address: 101 Innovatio | n Drive<br>ate: CA ZIP: 95134 |
| Execution Date: March 4 and 5, 2004  4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:   |                                  |  |  |                               |
| A. F   | Patent Application No(s): 10/798 |  | B, Patent No(s):<br>ched? □ Yes ⊠ No   |                               |
| 5. Name and address of party to whom correspondence concerning document should be mailed:  Name: Steven Cahill  TOWNSEND AND TOWNSEND AND CREW LLP  Two Embarcadero Center, Eighth Floor  San Francisco, California 94111-3834  (415) 576-0200 |                                  | 6. Total number of applications and patents involved 1  7. Total fee (37 CFR 3.41):\$40.00 |  |                               |
| 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.  Steven Cahill Name of Person Signing Atty. Reg. No. 44,578   |                                  |  |  |                               |
| Total number of pages including cover sheet, attachments and documents:  |                                  |  |  |                               |

Mail documents to be recorded with required cover sheet information to:

Mall Stop Assignment Recordation Services
Director of the U.S. Patent and Trademark Office
P.O. Box 1450

Alexandria, VA 22313-1450

60242225 v1

**PATENT REEL: 014744 FRAME: 0391** 

Attorney Docket No.: 015114-054911US

Client Reference No.: A1250

## ASSIGNMENT OF PATENT APPLICATION

**JOINT** 

WHEREAS, XIAOBAO WANG of 10357 Vista Knoll Blvd., Cupertino, CA 95014; CHIAKANG SUNG of 2005 Skyline Drive, Milpitas, CA 95035 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 PROVIDING MULTIPLE

TERMINATION IMPEDANCE VALUES TO I/O PINS ON

AN INTEGRATED CIRCUIT

Date(s) of execution of Declaration: March 4 and 5, 2004

Filing Date: March 10, 2004

Application No.: 10/798,597 ; 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: 3/4/04

Xiaobao Wand

Dated: 3/5/04

RECORDED: 06/17/2004

Chiakana Suna

60156292 v1

PATENT REEL: 014744 FRAME: 0392