

Form PTO-1595 (Rev. 03/01) **RECORDATION FORM COVER SHEET** U.S. DEPARTMENT OF COMMERCE  
 OMB No. 0851-0027 (exp. 6/31/2002) **PATENTS ONLY** U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof

1. Name of conveying party(ies):  
**Xiang Dong TAN (05/09/2003),  
 Xiangyong WANG (05/08/2003), and  
 Brent A. FAIRBANKS (05/08/2003)**

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

3. Nature of Conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: see Box 1, conveying parties

2. Name and address of receiving party(ies)

Name: Altera Corporation

Internal Address: \_\_\_\_\_

Street Address:  
101 Innovation Drive

City: San Jose

Country: CA Zip: 95134

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

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the new application is: \_\_\_\_\_

A. Patent Application No.(s):  
10/353,453

B. Patent No.(s): \_\_\_\_\_

Additional numbers attached?  Yes  No

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

Name: Michael J. Mauriel  
 MORRISON & FOERSTER LLP

Internal Address: Atty. Dkt.: 305812004400

Street Address:  
425 Market Street

City: San Francisco State: CA Zip: 94105

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

Enclosed  
 Authorized to be charged to deposit account  
 Authorized to be charged to credit card  
 (Form 2038 enclosed)

8. Deposit account number:

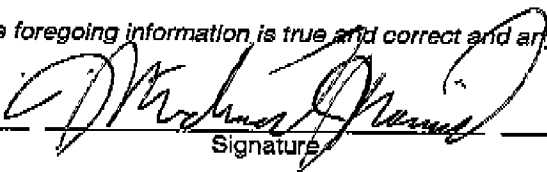
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9. Statement and signature.

*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.*

Michael J. Mauriel - Reg. No. 44,226  
 Name of Person Signing



Signature

May 21, 2003  
 Date

Total number of pages including cover sheet, attachments, and documents: 3

I hereby certify that this correspondence is being facsimile transmitted to the Patent and Trademark Office, Assignment Division, facsimile no. 703/306-5995, on the date shown below

Dated: 5/21/03 Signature: [Signature] (Yayoi Isaacson)

**ASSIGNMENT  
JOINT**

THIS ASSIGNMENT, by XiangDong TAN, Xiangyong WANG and Brent A. FAIRBANKS (hereinafter referred to as the assignors), residing at 1233 Inverness Court, Fremont, California 94539; 7124 Golden Gate Drive, San Jose, California 95129 and 151 Buckingham Drive #276, Santa Clara, California 95051, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in I/O PIN PLACEMENT FOR A PROGRAMMABLE LOGIC DEVICE, set forth in an application for Letters Patent of the United States, having an oath or declaration executed on even date herewith; bearing Serial No. 10/353,453 and filed on January 28, 2003; and

WHEREAS, Altera Corporation, a corporation duly organized under and pursuant to the laws of Delaware and having its principal place of business at 101 Innovation Drive, San Jose, California 95134 (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

5/9/2003  
Date

XiangDong TAN

5/8/2003  
Date

Xiangyong WANG

5/8/2003 Brent A. Fairbanks  
Date Brent A. FAIRBANKS