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

1. Name of conveying party(ies):
   (1) Chih-Ching Shih, (2) Cheng H. Huang,
   (3) Hugh Sung-Ki O, and (4) Yow-Juang Liu

2. Name and address of receiving party(ies)
   Name: Altera Corporation
   Internal Address: 
   Street Address: 101 Innovation Drive
   City: San Jose State: CA Zip: 94301

3. Nature of conveyance:
   ☐ Assignment ☐ Merger
   ☐ Security Agreement ☐ Change of Name
   ☐ Other

   Execution Date: (1)-(3) 1-19-04; (4) 2-10-04

4. Application number(s) or patent number(s):
   2-17-04
   (1)-(3) 1-19-04; (4) 2-10-04
   A. Patent Application No.(s)
   Filed concurrently herewith
   B. Patent No.(s)
   Additional number(s) & address(es) attached? ☐ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:
   Name: G. Victor Treyz, Esq.
   Street Address: Flood Building
   870 Market Street, Suite 984
   City: San Francisco State: CA Zip: 94102

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
     (for underpayments or overpayments)

8. Deposit account number:
   502942

   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.
   G. Victor Treyz, Reg. No. 36, 294
   Name of Person Signing

   Signature
   Date

Additional numbers attached? ☐ Yes ☐ No

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

PATENT
REEL: 015006 FRAME: 0731
ASSIGNMENT

WHEREAS, We, Chih-Ching Shih, Cheng H. Huang, Hugh Sung-Ki O, and Yow-Juang Liu, residing respectively at 2961 Moreno Ave., Pleasanton, CA 94588, 7915 Belknap Drive, Cupertino, CA 95014, 117 King Ave., Fremont, CA 94536, and 1213 Tivoli Way, San Jose, CA 95120, have made an invention entitled:

ELECTRICALLY-PROGRAMMABLE TRANSISTOR ANTIFUSES

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

WHEREAS, ALTERA CORPORATION, a corporation organized and existing under the laws of the State of Delaware and having an address of 101 Innovation Drive, San Jose, California 95134, is desirous of acquiring the entire interest in said invention, said United States patent application and in 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) paid, and other good and valuable consideration, the receipt of sufficiency of which is hereby acknowledged, we do 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, continuations-in-part and divisions thereof,
and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent 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 we hereby authorize and request 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 we further agree 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, we have hereunto signed our names on the dates indicated hereinafter.

Jan 19, 2004
Date
Chih-Ching Shih

Jan 19, 2004
Date
Cheng H. Huang

PATENT
REEL: 015006 FRAME: 0733