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22858 U.S. PTO
10/783608



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To: Honorable Commissioner of Patents and Trademarks:

Please record the attached original document(s) or copy thereof.

- 1. Name of conveying party(ies)
 - a) Vincent Hool
 - b) John Yuanlin Xie

- 2. Name and address of receiving party(ies):
 - a) Name: **Altera Corporation**
 - Address: **101 Innovation Drive**
San Jose, CA 95134

- 3. Nature of conveyance

<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name
<input type="checkbox"/> Other _____	<input type="checkbox"/> License Agreement

Execution Date: Vincent Hool-February 10, 2004 and John Yuanlin Xie-February 11, 2004

- 4. Application Number(s) or Patent Number(s): New **101783608**

The title of the (new) application is:

MODULATED FLIP CHIP SUBSTRATE DESIGN

- 5. Please send all correspondence concerning this (these) documents to:

Beyer Weaver & Thomas, LLP
P.O. Box 778
Berkeley, CA 94704-0778
Ph: (510) 843-6200
Fax: (510) 843-6203
(Customer Number: 022434)

- 6. Total number of applications and patents involved: 1

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

- Enclosed
- Any additional fees are authorized to be charged to Deposit Account No. 500388 (Order No. ALTRP099)


- 8. 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.

Date: February 19, 2004

02/26/2004 FFANAEIA 00000053 10783608

04 FC:8021

40.00 DP



 Desmond Gean
 Registration No. 52,937

Attorney Docket No. ALTRP099/A1197

(Revised 12/01)

PATENT
REEL: 015024 FRAME: 0658

ASSIGNMENT OF PATENT APPLICATION

Whereas I an undersigned inventor have invented certain new and useful improvements as set forth in the patent application entitled:

MODULATED FLIP CHIP SUBSTRATE DESIGN

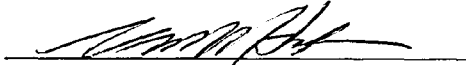

(Atty. Docket No. ALTRP099/A1197) (check one)

- for which I have executed a U.S. patent application on even date herewith. (Accompanying)
- which bears U.S. application No.
- which is a U.S. provisional application. (Accompanying)

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I an undersigned inventor hereby:

- 1) Sell, assign and transfer to **Altera Corporation**, a Delaware corporation having a place of business at 101 Innovation Drive, San Jose, California 95134 ("ASSIGNEE"), the entire right, title and interest in any and all improvements and inventions disclosed in, applications based upon, and patents (including foreign patents and the right to claim priority) granted upon, the above-referenced application.
- 2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.
- 3) Agree to execute all papers and documents and, entirely at the ASSIGNEE's expense, perform any acts which are reasonably necessary in connection with the prosecution of said application, as well as any derivative applications thereof, foreign applications based thereon, and/or the enforcement of patents resulting from such applications.
- 4) Agree that the terms, covenants and conditions of this assignment shall inure to the benefit of the ASSIGNEE, its successors, assigns and other legal representative, and shall be binding upon the inventor, as well as the inventor's heirs, legal representatives and assigns.
- 5) Warrant and represent that I have not entered, and will not enter into any assignment, contract, or understanding that conflicts with this assignment.
- 6) Authorize and request my attorney/agent to insert above the application No. in order to assist with recordal of this assignment.

Signed on the date indicated beside my signature.

- 1) Signature:  Date: 2/10/04
 Typed Name: Vincent Hool
- 2) Signature:  Date: 2/11/04
 Typed Name: John Yuanlin Xie