

## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Siang Poh Loh</td> <td>12/27/2012</td> </tr> <tr> <td>Chooi Pei Lim</td> <td>12/27/2012</td> </tr> </tbody> </table>		Name	Execution Date	Siang Poh Loh	12/27/2012	Chooi Pei Lim	12/27/2012
Name	Execution Date						
Siang Poh Loh	12/27/2012						
Chooi Pei Lim	12/27/2012						
RECEIVING PARTY DATA							
Name:	Altera Corporation						
Street Address:	101 Innovation Drive						
City:	San Jose						
State/Country:	CALIFORNIA						
Postal Code:	95134						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13733071</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13733071		
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Application Number:	13733071						
CORRESPONDENCE DATA							
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NAME OF SUBMITTER:	Michelle Heymann						
Total Attachments: 1 source=ALTRP294_Signed_Assignment#page1.tif							

CH \$40.00 13733071

## ASSIGNMENT OF PATENT APPLICATION

Whereas I, an undersigned inventor, have invented certain new and useful improvements as set forth in the patent application entitled: **3D BUILT-IN SELF-TEST SCHEME FOR 3D ASSEMBLY DEFECT DETECTION** (Atty. Docket No. ALTRP294/A04017), and

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

OR

(2) have made an application for United States Letters Patent therefor, the same having been filed on (January 2, 2013) under Application No. (13/733,071), in connection with which we hereby authorize and request the assignee's attorneys associated with Customer Number 51501 to insert within the foregoing parentheses the filing date and Application No. of said application when known;

NOW, THEREFORE, 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.

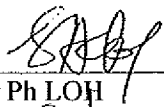

2) Authorize and request the Commissioner of Patents to issue any and all Letters Patents resulting from said application or any division, continuation, substitute, renewal, re-examination or reissue thereof to the ASSIGNEE.

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.

Signed on the date indicated beside my signature.

1)	Signature: <u></u> Typed Name: Siang Ph LOH	Date: <u>27 Dec 2012</u>
2)	Signature: <u></u> Typed Name: Chooi Pei LIM	Date: <u>27 Dec 2012</u>

Revised 06/01, Assign US or Foreign No Notary