

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
JEFFREY SCHULZ	05/19/2014
MICHAEL HUTTON	05/09/2014
<b>RECEIVING PARTY DATA</b>	
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<b>State/Country:</b>	CALIFORNIA
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14791917
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<b>ATTORNEY DOCKET NUMBER:</b>	066664-000009USC1
<b>NAME OF SUBMITTER:</b>	WAYNE L. TANG
<b>SIGNATURE:</b>	/Wayne L. Tang--Reg. No. 36028/
<b>DATE SIGNED:</b>	12/01/2015
<b>Total Attachments: 3</b>	
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ASSIGNMENT

WHEREAS, we, Jeffrey Schulz and Michael Hutton, have invented certain new and useful improvements in the following:

**METHOD AND CIRCUIT FOR SCALABLE CROSS POINT SWITCHING USING 3-D DIE STACKING**

for which we have made application for United States Letters Patent, the said application having been filed on \*05-20-2014 as Application Serial No. \*14/282510

WHEREAS, Altera Corporation, a corporation organized and existing under the laws of the State of Delaware, having its principal place of business at 101 Innovation Drive, San Jose, CA 95134 (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring our entire right, title and interest in and to the invention, and in and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives our entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefore, and all provisionals, divisions, reissues, substitutions, continuations, continuation-in-part and extensions thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patents resulting therefrom, insofar as our interest is concerned, to the said ASSIGNEE of our entire right, title, and interest.

We also hereby sell and assign to said ASSIGNEE, its successors, assigns and legal representatives the full and exclusive rights, title and interest to the invention disclosed in said application throughout the world, including the right to file applications and obtain patents, utility models, industrial models and designs for said invention in its own name throughout the world, including all rights of priority, all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and

We further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such rights, title and interest in ASSIGNEE, its successors, assigns and legal representatives.

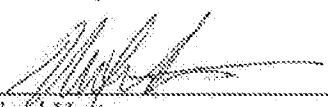
We hereby further agree that we will communicate to said ASSIGNEE, or its successors, assigns and legal representatives, any facts known to me respecting any improvements; and, at the expense of said ASSIGNEE, to testify in any legal proceedings, sign all lawful papers, execute all provisional, divisional, continuation, continuation-in-part, reissue and substitute applications, make all lawful oaths, and generally do everything possible to vest title in said ASSIGNEE and to aid said ASSIGNEE, its successors, assigns and legal representatives to obtain and enforce proper protection for said invention in all countries.

We further authorize and direct our attorneys to insert above \* the serial number and filing date of said application now identified as Docket No. 066664-000009USPT as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19 day of May, 2014.

  
\_\_\_\_\_  
Jeffrey Schulz

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 01 day of May, 2014.

  
\_\_\_\_\_  
Michael Hulston

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