

## PATENT ASSIGNMENT COVER SHEET

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<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MARTIN LANGHAMMER	10/08/2014
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<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134-1941
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14513452
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<b>NAME OF SUBMITTER:</b>	JEFFREY H. INGERMAN
<b>SIGNATURE:</b>	/Jeffrey H. Ingerman/
<b>DATE SIGNED:</b>	10/14/2014
<b>Total Attachments: 2</b>	
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A S S I G N M E N T

Whereas I, Martin Langhammer, residing in Alderbury, Salisbury, Wiltshire, England, have made an invention in:

MULTI-CHANNEL, MULTI-LANE  
ENCRYPTION CIRCUITRY AND METHODS

and am about to make or have made application for United States Letters Patent therefor, the same having been executed by me on even date herewith (I hereby authorize and request any one of assignee's attorneys associated with Customer Number 45851, to insert here in brackets [Application No. \_\_\_\_\_, filed \_\_\_\_\_] the application number and filing date of said application when known); and

WHEREAS, ALTERA CORPORATION, a corporation organized and existing under the laws of Delaware and having an office and place of business at 101 Innovation Drive, San Jose, California 95134-1941 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) to me paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, I 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 and divisions thereof, and any substitute applications therefor, and any patents which may issue thereon, and any reissues of the same, and including the right to claim priority under the International Convention based on said patent application; 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 I 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 I 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, I have hereunto signed my name and affixed my seal on the date indicated hereinafter.

OCT 8 2014

Date

  
\_\_\_\_\_  
Martin Langhammer