

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>Martin Langhammer</td> <td>02/26/2013</td> </tr> <tr> <td>Haiyun Yang</td> <td>02/27/2013</td> </tr> <tr> <td>Peng Li</td> <td>02/26/2013</td> </tr> </tbody> </table>		Name	Execution Date	Martin Langhammer	02/26/2013	Haiyun Yang	02/27/2013	Peng Li	02/26/2013
Name	Execution Date								
Martin Langhammer	02/26/2013								
Haiyun Yang	02/27/2013								
Peng Li	02/26/2013								
RECEIVING PARTY DATA									
Name:	Altera Corporation								
Street Address:	101 Innovation Drive								
City:	San Jose								
State/Country:	CALIFORNIA								
Postal Code:	95134-1941								
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>13781839</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13781839				
Property Type	Number								
Application Number:	13781839								
CORRESPONDENCE DATA									
Fax Number:	6172359492								
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ATTORNEY DOCKET NUMBER:	000174-0774-101								
NAME OF SUBMITTER:	Andrea Silverman								
Total Attachments: 2 source=000174-0774-101_Assignment#page1.tif source=000174-0774-101_Assignment#page2.tif									

CH \$40.00 13781839

A S S I G N M E N T

Whereas we, Martin Langhammer, Haiyun Yang, and Peng Li, respectively residing in Salisbury, Wiltshire, Great Britain, San Jose, California, and Palo Alto, California, have made an invention in:

FLEXIBLE HIGH SPEED FORWARD ERROR CORRECTION (FEC)
PHYSICAL MEDIUM ATTACHMENT (PMA) AND PHYSICAL
CODING SUBLAYER (PCS) CONNECTION SYSTEM

and are about to make or have made application for United States Letters Patent therefor, the same having been executed by each of us on even date(s) herewith, and having been filed in the United States Patent and Trademark Office on

^{March}
~~January~~ 1, 2013 as Application No. 13/ 781,839; 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 each of us paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, each of us does 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 each of us hereby authorizes and requests 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 each of us further agrees 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.

As an inventor, each of us declares as follows:

The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in the declaration set forth in this paragraph is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

IN TESTIMONY WHEREOF, we have hereunto signed our names and affixed our seals on the dates indicated hereinafter.

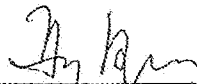
Feb 26 2013
Date

Feb 27 2013
Date

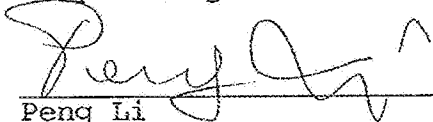
Feb 26, 2013
Date



Martin Langhammer



Haiyuh Yang



Peng Li