

PATENT ASSIGNMENT

Electronic Version v1.1

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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>Tim Tri Hoang</td> <td>08/23/2013</td> </tr> <tr> <td>Nam V. Nguyen</td> <td>08/16/2013</td> </tr> </tbody> </table>		Name	Execution Date	Tim Tri Hoang	08/23/2013	Nam V. Nguyen	08/16/2013				
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Nam V. Nguyen	08/16/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Altera Corporation</td> </tr> <tr> <td>Street Address:</td> <td>101 Innovation Drive</td> </tr> <tr> <td>City:</td> <td>San Jose</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>95134</td> </tr> </table>		Name:	Altera Corporation	Street Address:	101 Innovation Drive	City:	San Jose	State/Country:	CALIFORNIA	Postal Code:	95134
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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>13974297</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13974297						
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CORRESPONDENCE DATA											
<p>Fax Number: 6172359492</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 2125969000</p> <p>Email: joy.chapman@ropesgray.com</p> <p>Correspondent Name: Ropes & Gray LLP</p> <p>Address Line 1: 1211 Ave. of the Americas</p> <p>Address Line 2: Docketing Dept.</p> <p>Address Line 4: New York, NEW YORK 10036</p>											
ATTORNEY DOCKET NUMBER:	000174-0788-101										
NAME OF SUBMITTER:	Joy Chapman										
Signature:	/Joy Chapman/										
Date:	08/23/2013										
<p>Total Attachments: 2</p> <p>source=000174-0788-101_Assignment#page1.tif</p> <p>source=000174-0788-101_Assignment#page2.tif</p>											

CH \$40.00 13974297

A S S I G N M E N T

Whereas we, Tim Tri Hoang, residing in San Jose, California; and Nam V. Nguyen, residing in San Jose, California, have made an invention in:

DIGITAL EQUALIZER ADAPTATION USING ON-DIE INSTRUMENT

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 (each of us hereby authorizes and requests 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 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, I declare 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.

8/23/2013
Date

Tim Tri Hoang
Tim Tri Hoang

8/16/2013
Date

Nam V. Nguyen
Nam V. Nguyen