

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Wing LIU</td> <td>12/17/2012</td> </tr> </tbody> </table>		Name	Execution Date	Wing LIU	12/17/2012
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Wing LIU	12/17/2012				
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>13715629</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13715629
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Application Number:	13715629				
CORRESPONDENCE DATA					
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ATTORNEY DOCKET NUMBER:	10006.006700 (A04021)				
NAME OF SUBMITTER:	JAMES K. OKAMOTO				
Total Attachments: 2 source=A04021-Assignment#page1.tif source=A04021-Assignment#page2.tif					

OP \$40.00 13715629

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred herein as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to **Altera Corporation**, a Delaware corporation, having a place of business at **101 Innovation Drive, San Jose, CA 95134**, ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) ("APPLICATION"), entitled "**APPARATUS AND METHODS FOR EQUALIZER ADAPTATION**" and with the following particulars:

Filing Date: December 14, 2012 Attorney Docket No.: 10006.006700 (A04021)

Application No.: 13/715,629

2. The entire worldwide right, title, and interest in and to:
(a) the APPLICATION; (b) all applications claiming priority from the APPLICATION; (c) all divisional, provisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted or have been granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in and to the APPLICATION, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all assignments, oaths, powers of attorney, applications, and other papers (and/or documents) necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR further authorizes and directs the attorneys of record to insert in this document the serial number and filing date of the APPLICATION, identified by the attorney docket number and title set forth above, as soon as the same shall have been made known to them by the United States Patent and Trademark Office.

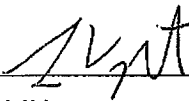
Title of Document: ASSIGNMENT

Re:
Title: APPARATUS AND METHODS FOR EQUALIZER ADAPTATION
Serial No.: 13/715,629
Filing Date: December 14, 2012
Atty. Docket No.: 10006.006700 (A04021)

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature _____

Date of
Signature



12/17 2012

Wing LIU