

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>Catherine Chingi Chang</td> <td>03/28/2013</td> </tr> <tr> <td>Henry Y. Lui</td> <td>04/03/2013</td> </tr> <tr> <td>Ramanand Venkata</td> <td>04/03/2013</td> </tr> </tbody> </table>		Name	Execution Date	Catherine Chingi Chang	03/28/2013	Henry Y. Lui	04/03/2013	Ramanand Venkata	04/03/2013		
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Catherine Chingi Chang	03/28/2013										
Henry Y. Lui	04/03/2013										
Ramanand Venkata	04/03/2013										
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>13802752</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13802752						
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CORRESPONDENCE DATA											
Fax Number: 6503310184 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 650-585-2933 Email: lupe@bhiplaw.com Correspondent Name: Guadalupe M. Garcia Address Line 1: 378 Cambridge Avenue Address Line 2: Suite F Address Line 4: Palo Alto, CALIFORNIA 94306											
ATTORNEY DOCKET NUMBER:	900016-600005										
NAME OF SUBMITTER:	Guadalupe M. Garcia										
Signature:	/Guadalupe M. Garcia/										

Date:

08/19/2013

Total Attachments: 2

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ASSIGNMENT OF PATENT APPLICATION

WHEREAS, Catherine Chingi Chang, Henry Y. Lui, Ramanand Venkata, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below identified application for United States Letters Patent:

Title of Invention: **Programmable Matrix for the Allocation of Communication Resources**

Date(s) of execution of Declaration:

Filing Date: March 14, 2013

Application No.: 13/802,752

WHEREAS, Altera Corporation, a Delaware Corporation, located at 101 Innovation Drive, San Jose, CA 95134, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignor, Assignor has assigned, and by these presents do assign to Assignee all right, title, and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that he will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

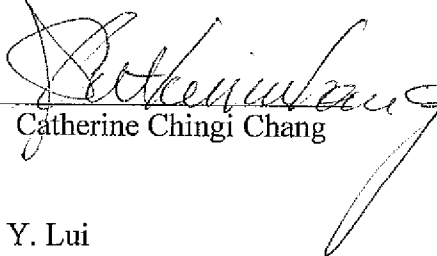
The undersigned hereby grants each practitioner at Customer No. 96286, my attorney(s) and/or agent(s), the power to insert on this document any further identification necessary or desirable to, among other things, comply with the rules of the United States Patent and Trademark Office.

IN TESTIMONY WHEREOF, Assignor has signed his name on the date indicated.

Full Name: Catherine Chingi Chang
Residence: San Jose, CA, USA
(City, State, Country)

Mailing Address: 101 Innovation Drive
San Jose, CA 95134

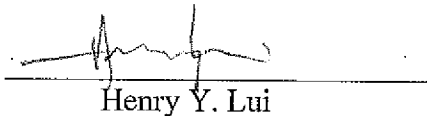
Dated: 3/28/2013


Catherine Chingi Chang

Full Name: Henry Y. Lui
Residence: Millbrae, CA, USA
(City, State, Country)

Mailing Address: 101 Innovation Drive
San Jose, CA 95134

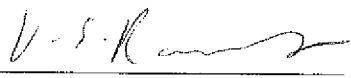
Dated: 4-3-2013


Henry Y. Lui

Full Name: Ramanand Venkata
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(City, State, Country)

Mailing Address: 101 Innovation Drive
San Jose, CA 95134

Dated: 7/3/13


Ramanand Venkata