

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3134589

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MASASHI SHIMANOUCHI	11/14/2014
PENG LI	11/14/2014
HSINHO WU	11/17/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ALTERA CORPORATION
<b>Street Address:</b>	101 INNOVATION DRIVE
<b>City:</b>	SAN JOSE
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95134
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	14548606
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(408)436-2114
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Email:</b>	jina@OBLLP.com
<b>Correspondent Name:</b>	OKAMOTO & BENEDICTO LLP
<b>Address Line 1:</b>	P.O. BOX 641330
<b>Address Line 4:</b>	SAN JOSE, CALIFORNIA 95164-1330
<b>ATTORNEY DOCKET NUMBER:</b>	10006.009000 (A04562)
<b>NAME OF SUBMITTER:</b>	JAMES K. OKAMOTO
<b>SIGNATURE:</b>	/James K. Okamoto, Reg. No. 40,110/
<b>DATE SIGNED:</b>	12/05/2014
<b>Total Attachments: 2</b>	
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**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 "**METHODS AND APPARATUS FOR ACCURATE TRANSMITTER SIMULATION FOR LINK OPTIMIZATION**" and with the following particulars:

Filing Date: November 20, 2014 Attorney Docket No.: 10006.009000 (A04562)

Application No.: 14/548,606

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.

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.

Title of Document: ASSIGNMENT

Re:

Title: METHODS AND APPARATUS FOR ACCURATE TRANSMITTER  
SIMULATION FOR LINK OPTIMIZATION

Serial No.:

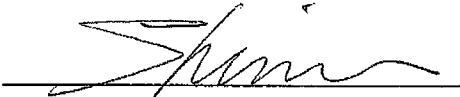
Filing Date:

Atty. Docket No.: 10006.009000 (A04562)

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Name and Signature

Date of  
Signature

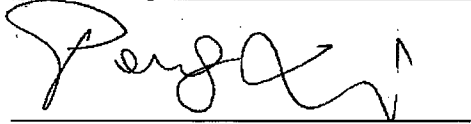


Nov. 14, 2014

Masashi SHIMANOUCI

Name and Signature

Date of  
Signature



Nov. 14, 2014

Peng LI

Name and Signature

Date of  
Signature



Nov. 17, 2014

Hsinho WU