

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Gopinath Rangan</td> <td>06/10/2007</td> </tr> <tr> <td>Khai Nguyen</td> <td>06/05/2007</td> </tr> <tr> <td>Chiakang Sung</td> <td>06/06/2007</td> </tr> </tbody> </table>		Name	Execution Date	Gopinath Rangan	06/10/2007	Khai Nguyen	06/05/2007	Chiakang Sung	06/06/2007
Name	Execution Date								
Gopinath Rangan	06/10/2007								
Khai Nguyen	06/05/2007								
Chiakang Sung	06/06/2007								
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" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11784540</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11784540				
Property Type	Number								
Application Number:	11784540								
CORRESPONDENCE DATA									
Fax Number:	(212)309-6001								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	212-309-6632								
Email:	smcconnaughey@morganlewis.com								
Correspondent Name:	Morgan, Lewis & Bockius LLP								
Address Line 1:	101 Park Avenue								
Address Line 2:	Francis E. Morris								
Address Line 4:	New York, NEW YORK 10178								
ATTORNEY DOCKET NUMBER:	060889-5043-US								
NAME OF SUBMITTER:	Francis E. Morris								

Total Attachments: 4
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RECORDATION FORM COVER SHEET
PATENTS ONLY

Attorney Docket No. 060889-5043-US

Mail Stop Assignment Recordation Services
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, VA 22313-1450

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): Gopinath Rangan, Khai Nguyen, and Chiakang Sung Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: Altera Corporation Address: 101 Innovative Drive San Jose, CA 95134 Country (if other than USA):
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment Merger Security Agreement Change of Name Other Execution Date: Rangan, June 10, 2007; Nguyen, June 5, 2007; and Sung, June 6, 2007	

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

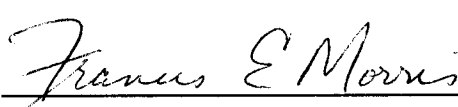
A. Patent Application No.(s) B. Patent No.(s)
 Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed: Customer No. 048591 Morgan, Lewis & Bockius LLP 1111 Pennsylvania Avenue, N.W. Washington, D.C. 20004	6. Number of applications and patents involved: 1 7. Total fee (37 CFR 3.41):.....\$ 40.00 <input checked="" type="checkbox"/> Please charge to the deposit account listed in Section 8. 8. Deposit account number: 50-0310 (Attach duplicate copy of this page if paying by deposit account)
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DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Francis E. Morris	24,615		July 9, 2007
Name of Person Signing	Reg. No.	Signature	Date

Total number of pages including cover sheet, attachments, documents, and duplicate cover sheet for Deposit Account: 4

Mail documents to be recorded with required cover sheet information to address above

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Address: 101 Innovative Drive
San Jose, CA 95134

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- Security Agreement Change of Name
- Other

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ASSIGNMENT

WHEREAS, WE, **GOPINATH RANGAN**, citizen of India, residing in Fontainebleau, France; **KHAI NGUYEN**, citizen of the United States, residing in San Jose, California; **CHIAKANG SUNG**, citizen of the United States, residing in Milpitas, California are the inventors of the invention in **DISTRIBUTION OF RETURN PATHS FOR IMPROVED IMPEDANCE CONTROL AND REDUCED CROSSTALK**, for which we have executed an application for a Patent of the United States

- which is executed on even date herewith or
- which is identified by Morgan, Lewis & Bockius LLP docket no. 060889-5043-US
- which was filed on April 6, 2007, Application No. 11/784,540.
- We hereby authorize and request our attorney, Francis E. Morris, of Morgan, Lewis & Bockius, LLP, to insert here in parentheses (Application number, _____ filed _____) the filing date and application number of said application when known.

and WHEREAS, **Altera Corporation**, ASSIGNEE, having a place of business at 101 Innovation Drive, San Jose, CA 95134, is desirous of obtaining our entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said ASSIGNORS, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

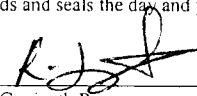
AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date June 10, 2007, 2007



Gopinath Rangan L.S.

Date _____, 2007

Khai Nguyen L.S.

Date _____, 2007

Chiakang Sung L.S.

ASSIGNMENT

WHEREAS, WE, **GOPINATH RANGAN**, citizen of India, residing in Fontainebleau, France; **KHAI NGUYEN**, citizen of the United States, residing in San Jose, California; **CHIAKANG SUNG**, citizen of the United States, residing in Milpitas, California are the inventors of the invention in **DISTRIBUTION OF RETURN PATHS FOR IMPROVED IMPEDANCE CONTROL AND REDUCED CROSSTALK**, for which we have executed an application for a Patent of the United States

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- which is identified by Morgan, Lewis & Bockius LLP docket no. 060889-5043-US
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AND WE HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we have full right to convey the entire interest herein assigned, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

IN TESTIMONY WHEREOF, We hereunto set our hands and seals the day and year set opposite our respective signatures.

Date _____, 2007 _____ L.S.
Gopinath Rangan

Date June 5th, 2007 _____ L.S.
Khai Nguyen

Date 6/6/07, 2007 _____ L.S.
Chiakang Sung