

7-20-05

FORM PTO-1595  
6-93  
OMB No. 0631-0011 (exp. 4/94)

07-28-2005



conf no: X-2013 US

HEET U.S. DEPARTMENT OF COMMERCE  
Patent Office

11-185118

To the Honorable Commissioner of Patents and Trademarks **103049686**

ached original documents or copy thereof.

1. Name of conveying party(ies):  
Jonathan B. Ballagh; Alexander Carreira; L. James Hwang; Roger B. Milne; Shay Ping Seng; Nabeel Shirazi  
Additional name(s) of conveying party(ies) attached? [ ] Yes [X] No

2. Name and address of receiving party(ies):  
Name: Xilinx, Inc.  
Internal Address: \_\_\_\_\_

3. Nature of Conveyance:  
 Assignment [ ] Merger  
 Security Agreement [ ] Change of Name  
 Other  
Execution Date: 07-06, 15, & 19-2005

Street Address: 2100 Logic Drive  
City: San Jose State: California Zip: 95124  
Additional name(s) & address(es) attached? [ ] Yes [X] No

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the filing date of the application is: 07-20-05  
A. Patent Application No.(s)  
Jonathan B. Ballagh; Alexander Carreira; L. James Hwang; Roger B. Milne; Shay Ping Seng; Nabeel Shirazi  
"Wireless Dynamic Boundary-Scan Topologies for Field Programmable Gate Arrays (FPGAs)"  
Additional numbers attached? [ ] Yes [X] No

B. Patent No.(s)  
\_\_\_\_\_

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: KIM KANZAKI  
Internal Address: Xilinx, Inc.  
Street Address: 2100 Logic Drive  
City: San Jose State: California Zip: 95124

6. Total number of applications and patents involved: one  
7. Total fee (37 CFR 3.41):.....\$ 40.00  
[ ] Enclosed  
[X] Authorized to be charged to deposit account  
8. Deposit Account Number: 24-0040  
(Attach duplicate copy of this page if paying by deposit account)

**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.*  
KIM KANZAKI, 37,652 [Signature] July 20, 2005  
Name of Person Signing Signature Date  
Total number of pages including cover sheet, attachments, and document: [ 05 ]

113262 U.S. PTO  
11/185118



072005

Mail documents to be recorded with required cover sheet information to

Commissioner for Patents, Mail Stop: Assignments  
Alexandria, Virginia 22313-1450

07/27/2005 ECDOOPER 00000123 240040 11185118  
01 FC:8021 40.00 DA

**PATENT**  
**REEL: 016801 FRAME: 0204**

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I/we

Jonathan B. Ballagh of 3391 Sentinel Drive, Boulder CO 80301  
 Alexander Carreira of 2424 9<sup>th</sup> Avenue, #5310, Longmont, CO 80503  
 L. James Hwang of 2120 Camino de los Robles, Menlo Park, CA 94025  
 Roger B. Milne of 2183 Kincaid Place, Boulder, CO 80304  
 Shay Ping Seng of 1376 Hanchett Avenue, San Jose, CA 95126  
 Nabeel Shirazi of 1318 Chandon Court, San Jose, CA 95125

hereby sell, assign and transfer to Xilinx, Inc., a Delaware corporation, having a place of business at 2100 Logic Drive, San Jose, California 95124, its successors and assigns, the entire right, title and interest throughout the world in our invention

WIRELESS DYNAMIC BOUNDARY-SCAN TOPOLOGIES FOR FIELD PROGRAMMABLE GATE ARRAYS (FPGAs)

for which I/we will execute a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; I/we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from me/us; I/we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, its successors, assigns and nominees, at its request and expense, in obtaining and enforcing patents for said invention in all countries; and I/we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 6<sup>th</sup> day of July, 2005.

*[Handwritten Signature]*  
Jonathan B. Ballagh

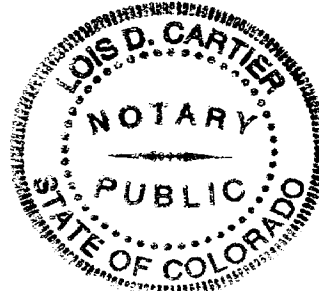
State of Colorado )  
County of Boulder )

CAPACITY CLAIMED BY SIGNER  
[ X ] oneself/themselves

On July 6, 2005 before me, Lois D. Cartier, Notary Public, personally appeared Jonathan B. Ballagh [ ] personally known to me --or -- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

*[Handwritten Signature]*  
Signature



Lois D. Cartier, Notary Public  
State of Colorado  
My Commission Expires 4/14/2008

Executed this 6<sup>th</sup> day of July, 2005.

Alex Carreira  
Alexander Carreira

State of Colorado  
County of Boulder

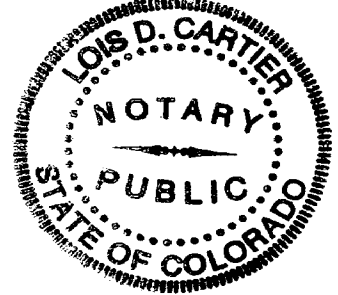
CAPACITY CLAIMED BY SIGNER  
 oneself/themselves

On July 6, 2005 before me, Lois D. Cartier, Notary Public, personally appeared Alexander Carreira [ ] personally known to me --or --  proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Lois D. Cartier  
Signature

Lois D. Cartier, Notary Public  
State of Colorado  
My Commission Expires 4/14/2008



Executed this 19<sup>th</sup> day of July, 2005.

L. James Hwang  
L. James Hwang

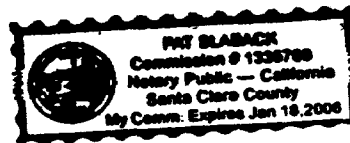
State of California  
County of Santa Clara

CAPACITY CLAIMED BY SIGNER  
 oneself/themselves

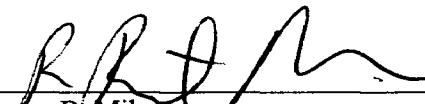
On July 19, 2005 before me, Pat Slaback, Notary Public, personally appeared L. James Hwang [ ] personally known to me --or --  proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Pat Slaback  
Signature



Executed this 6<sup>th</sup> day of July, 2005.

  
\_\_\_\_\_  
Roger B. Milne

State of Colorado )  
County of Boulder )

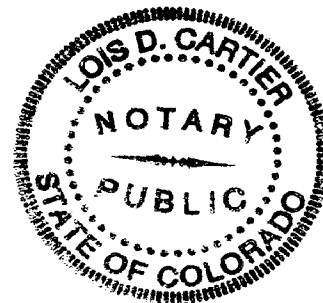
CAPACITY CLAIMED BY SIGNER  
[ X ] oneself/themselves

On July 6, 2005 before me, Lois D. Cartier, Notary Public, personally appeared Roger B. Milne [ ] personally known to me --or-- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
\_\_\_\_\_  
Signature

Lois D. Cartier, Notary Public  
State of Colorado  
My Commission Expires 4/14/2008



Executed this 15<sup>th</sup> day of July, 2005.

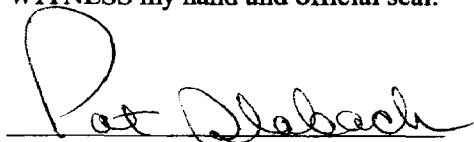
  
\_\_\_\_\_  
Shay Ping Seng

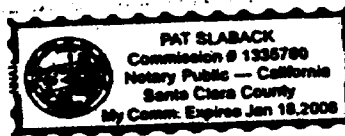
State of California )  
County of Santa Clara )

CAPACITY CLAIMED BY SIGNER  
[ X ] oneself/themselves

On July 15, 2005 before me, Pat Slaback, Notary Public, personally appeared Shay Ping Seng [ ] personally known to me --or-- [X] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

  
\_\_\_\_\_  
Signature



Executed this 15<sup>th</sup> day of July, 2005.

Nabeel Shirazi  
Nabeel Shirazi

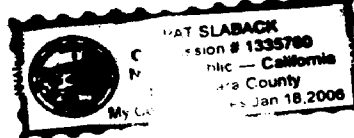
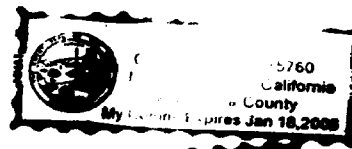
State of California )  
County of Santa Clara )

CAPACITY CLAIMED BY SIGNER  
 oneself/themselves

On July 15, 2005 before me, Pat Slaback, Notary Public, personally appeared Nabeel Shirazi  personally known to me --or--  proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Pat Slaback  
Signature



KK:pbs