

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/30/2009)  
15448-0519

U.S. DEPARTMENT OF COMMERCE  
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**YASUHISA YAMAMOTO**

Additional name(s) of conveying party (ies) attached?  Yes  No

**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 04/16/2007

- Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Cadence Design Systems, Inc.

Internal Address: \_\_\_\_\_

Street Address: 2655 Seely Avenue

City: San Jose

State: California

Country: U.S.A. Zip: 95134

Additional name(s) & address(es) attached?  Yes  No

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

A. Patent Application No.(s)

This document is being filed together with a new application.  
B. Patent No.(s)

Additional numbers attached?  Yes  No

**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Hickman Palermo Truong & Becker LLP

Internal Address: \_\_\_\_\_

Street Address: 2055 Gateway Place, Suite 550

City: San Jose

State: California Zip: 95110-1083

Phone Number: 408-414-1080

Fax Number: 408-414-1076

Email Address: \_\_\_\_\_

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00**

- Authorized to be charged by credit card  
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 None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 50-1302

Authorized User Name \_\_\_\_\_

9. Signature: Ronald M. Pomeranke May 17, 2007  
Signature Date

RONALD M. POMERENKE, REG. NO. 43,009

Name of Person Signing

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**PATENT**  
**REEL: 019316 FRAME: 0879**

Form PTO-1595 (Rev. 07/05)  
OMB No. 0651-0027 (exp. 6/15)  
15448-0519

04-26-2007

U.S. PTO  
11/787619  
04/16/2007

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office



103399645

COVER SHEET  
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YASUHISA YAMAMOTO

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Authorized User Name \_\_\_\_\_

9. Signature: Ronald M. Pomeranke Signature

April 16, 2007 Date

RONALD M. POMERENKE, REG. NO. 43,009  
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

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Attorney Docket No. 15448-0519

**ASSIGNMENT**

KNOW ALL MEN BY THESE PRESENTS, That Whereas I, YASUHISA YAMAMOTO, have invented certain new and useful improvements in **MULTIPLE PATTERNING TECHNIQUE USING A SINGLE RETICLE**, for which an application for Letters Patent of the United States of America has been executed; and

WHEREAS **CADENCE DESIGN SYSTEMS, INC.**, a corporation duly organized and existing under the laws of Delaware, and having an address at 2655 Seely Avenue, San Jose, California 95134, is desirous of acquiring an interest therein and in the Letters Patent to be obtained therefor from the United States;

NOW THEREFORE, in consideration of the sum of one dollar (\$1.00) and other good and valuable considerations to me by **CADENCE DESIGN SYSTEMS, INC.**, the receipt whereof is hereby acknowledged, I do hereby sell, assign, transfer and set over unto **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, the entire right, title and interest in, to and under the said application for United States Letters Patent, including all priority rights arising therefrom, all inventions therein disclosed, and any and all Letters Patent of the United States and of all other countries which may be granted for the said inventions, or any of them.

TO HAVE, HOLD and ENJOY the said inventions, the said Application, and the said Letters Patent to said **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, to its and their own use and behoof to the full end of the term or terms for which the said Letters Patent may be granted as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made.

And I do hereby authorize and request the Commissioner of Patents of the United States to issue any United States Letters Patent which may be granted on the said application, or any divisional, reissue or continuation applications, or for the said inventions, or any of them, to said **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, as assignees of the entire right, title and interest therein and thereto.

Attorney Docket No. 15448-0502

And I do hereby, for myself and for my legal representatives, covenant and agree with **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, that I have granted to others no license to make, use or sell any of the said inventions, that our right, title and interest in the said inventions has not been encumbered, that I have good right and title to sell and assign the same, and that I will not execute any instrument in conflict herewith.

And I do hereby, for myself and for my legal representatives, further covenant and agree with **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, that upon request I will, and they shall, execute divisional, reissue or continuation applications, amended specifications, or rightful oaths; communicate to **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, any facts known to us relating to the said inventions or the history thereof; execute preliminary statements and testify in any interference proceedings; execute and deliver any application papers, assignments, or other instruments, and do all other acts which, in the opinion of counsel for **CADENCE DESIGN SYSTEMS, INC.**, may be necessary or convenient to secure the grant of Letters Patent to **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, or its nominees, in the United States and in all other countries where **CADENCE DESIGN SYSTEMS, INC.**, may desire to have the said inventions, or any of them, patented, with specifications and claims in such form as shall be approved by counsel for **CADENCE DESIGN SYSTEMS, INC.**, and to vest and confirm in **CADENCE DESIGN SYSTEMS, INC.**, its successors and assigns, or its nominees, the full and complete legal and equitable title to all such Letters Patent, without further consideration than now paid but at the expense of **CADENCE DESIGN SYSTEMS, INC.**, its successors or assigns.

The undersigned hereby grants the firm of Hickman Palermo Truong & Becker, LLP of 2055 Gateway Place, Suite 550, San Jose, California 95110-1089, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Attorney Docket No. 15448-0502

IN WITNESS WHEREOF, I have hereunto set my hand and seal on the date indicated  
below:

Date: April 16, 2007

  
YASUHISA YAMAMOTO

07PA003

RECORDED: 04/16/2007

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PATENT  
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