

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Michael L. Rieger	09/25/2007
Micheal Cranford	09/25/2007
John P. Stirniman	09/25/2007
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	Synopsys, Inc.
<b>Street Address:</b>	700 East Middlefield Road
<b>City:</b>	Mountain View
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94043
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	11861195
<b>CORRESPONDENCE DATA</b>	
Fax Number:	(530)759-1665
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	530-759-1667
Email:	poornima@parklegal.com
Correspondent Name:	Shun Yao
Address Line 1:	Park, Vaughan & Fleming, LLP
Address Line 2:	2820 Fifth Street
Address Line 4:	Davis, CALIFORNIA 95618
ATTORNEY DOCKET NUMBER:	SNPS-0930-2
NAME OF SUBMITTER:	Shun Yao, Reg. No. 59,242

Total Attachments: 3  
 source=SNPS-0930-2 Assignment#page1.tif

**500413812**

**PATENT**  
**REEL: 020203 FRAME: 0659**

**OP \$40.00 11861195**

source=SNPS-0930-2 Assignment#page2.tif  
source=SNPS-0930-2 Assignment#page3.tif

**CORPORATE ASSIGNMENT**

WHEREAS, the undersigned,

Michael L. Rieger  
Micheal Cranford  
John P. Stirniman

182 Elk Run Road, Skamania, WA 98648  
2910 SE Oak Street, Hillsboro, OR 97123  
4810 NW 139th Loop, Vancouver, WA 98685

hereinafter termed "Inventor(s)", have invented certain new and useful improvements in

*FLASH-BASED UPDATING TECHNIQUES FOR HIGH-ACCURACY HIGH-EFFICIENCY MASK SYNTHESIS*

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

\_\_\_ On the \_\_\_ day of \_\_\_\_\_, 20 \_\_\_;

Or

X Said application having Application Number 11/861,195 and filed on 25 September 2007; and

WHEREAS, Synopsys, Inc. a corporation of the State of Delaware, having a place of business at 700 E. Middlefield Road, Mountain View, CA 94043-4033, (hereinafter termed "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventor(s) (all collectively hereinafter termed "said invention"), and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter termed "patents") thereon granted in the United States and foreign countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Inventor(s) to have been received in full from said Assignee:

1. Said Inventor(s) do hereby sell, assign, transfer and convey unto said Assignee the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply for foreign patents on said invention pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all applications filed and any and all patents granted on said invention in the United States or any foreign country, including each and every application filed and each and every patent granted on any application which is a divisional, substitution, continuation, or continuation-in-part of any of said applications; and (d) in and to each and every reissue or extensions of any of said patents.

2. Said Inventor(s) hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and foreign countries. Such cooperation by said Inventor(s) shall include prompt production of pertinent facts and documents, giving of testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (d) for filing and prosecuting applications for reissuance of any said patents; (e) for interference or other priority proceedings involving said

invention; and (f) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation reissues and reexaminations, opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Inventor(s) in providing such cooperation shall be paid for by said Assignee.

3. The terms and covenants of this assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventor(s), their respective heirs, legal representatives and assigns.

4. Said Inventor(s) hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, said Inventors have executed and delivered this instrument to said Assignee as of the dates written below.

Michael L. Rieger  
Michael L. Rieger

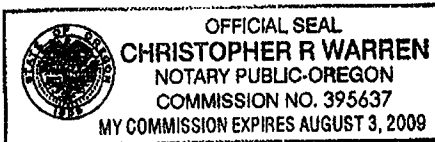
25 Sept 2007  
Date

State of Oregon )  
County of Washington )  
On 9/25/2007, before me, Christopher R Warren,  
personally appeared Michael L. Rieger,

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.

Christopher R Warren  
(Notary Public)



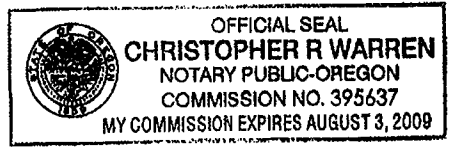
*Micheal Cranford*  
Micheal Cranford

State of Oregon )  
County of Washington )

On 9/25/2007 before me, *Christopher R. Warren*,  
personally appeared Micheal Cranford,

9/25/2007  
Date

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.

*Christopher R. Warren*  
(Notary Public)

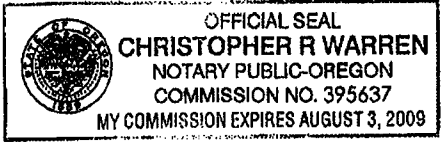
*John P. Stirniman*  
John P. Stirniman

State of Oregon )  
County of Washington )

On 9/25/2007 before me, *Christopher R. Warren*,  
personally appeared John P. Stirniman,

Sept 25, 2007  
Date

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.

*Christopher R. Warren*  
(Notary Public)