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FORM PTO-1595 (Rev. 3/01)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office
OMD NO. 0651-0011 exp. 5/31/2002) 103529541	
To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.	
Name of conveying party(ies):	Name and address of receiving party(ies):
Kenneth S. McElvain	Name: Synopsys, Inc.
Benoit Lemonnier	Internal Address:
William Halpin	miemai Address.
,	
Additional name(s) of conveying party(ies) attached?	Street Address:700 E. Middlefield Road
■ No □Yes	City: Mountain View State/Province: California
3. Nature of Conveyance	City. Iviountain view State/Plovince. Camorna
■ Assignment	zip: 94043 country: <u>United States of America</u>
Other:	
Execution Date(s): 09/25/2008; 09/29/2008;	Additional name(s) & address(es) attached? ☐ Yes ■ No
09/25/2008	
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)
12/177,869	
	유
Additional numbers attached? Yes No	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1
James C. Scheller, Jr.	
Name: Blakely, Sokoloff, Taylor & Zafman LLP	7. Total Fee (37 CFR 3.41\$40.00)
Internal Address:	Enclosed
Street Address: 1279 Oakmead Parkway	Authorized to be charged to deposit account
City: Sunnyvale State: California Zip: 94085	8. Deposit Account Number: 02-2666
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 Statement and signature. To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document. 	
James C. Scheller, Jr. #31,195 Name of Person Signing Total number of pages including cover sheet, attachments, and document: 6	
Mail documents to be recorded with required cover sheet information to:	
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Atty Docket No. <u>02986.P1117</u>

00000062 12177869 10/10/2008 MJAMA1 01 FC:8021 46.86 00

SSIGNMENT OF PATENT APPLICATION Attorney Docket No.: 02986.P1117		
For good and valuable consideration, the receipt and sufficiency of which is hereby		
acknowledged, we, the undersigned, <u>Kenneth S. McElvain, Benoit Lemonnier, and</u>		
William Halpin		
hereby sell, assign, and transfer to Synopsys, Inc.		
a <u>corporation</u> of <u>Delaware</u> , (Type of Assignee: e.g., corporation, company, partnership, university, etc.)		
having a principal place of business at _700 E. Middlefield Road, Mountain View, CA 94043,		
("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions or improvements that are disclosed in the application (provisional or non-provisional) for the United States patent which may have a declaration executed by the undersigned prior hereto or concurrently herewith and is entitled		
ARCHITECTURAL PHYSICAL SYNTHESIS		
said patent application also identified as follows (when known):		
[I/we hereby authorize an attorney or agent for said Assignee to insert below the application number and filing date of said patent application when known.]		
United States Patent Application Number 12/177,869 filed 07/22/2008,		
and in and to said application (provisional or non-provisional) and all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;		
agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths,		

02986.P1117 -1-

assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

Sept 2S, 2008 Kenneth S. McElvain

Date

Sept 2 J , 20 08

Name: Benoit Lemonnier

Date

Name: William Halpin

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085 (408) 720-8300

FORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California Elizabeth personally appeared who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their-signature(s) on the instrument the person(s); or the entity upon behalf of ELIZABETH JANE BEVENS which the person(s) acted, executed the instrument. Commission # 1805632 Notary Public - California I certify under PENALTY OF PERJURY under the laws Santa Clara County My Comm. Expires Jul 2, 2012 of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Place Notary Seal Above OPTIONAL Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document. **Description of Attached Document** Title or Type of Document; Signer(s) Other Than Named Above: Capacity(ies) Claimed by Signer(s) Signer's Name: Benort emonnier Signer's Name:_ ☑ Individual □ Individual ☐ Corporate Officer — Title(s): □ Corporate Officer — Title(s): _ ☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Dirgited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact Top of thumb here Top of thumb here □ Trustee □ Trustee ☐ Guardian or Conservator □ Guardian or Conservator Other:_ Other:_ Signer Is Representing: _ Signer Is Representing:

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IFORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California county of Santa Clara On September 25,2008 before me, Elizabeth Jane Bevens, Notary Public personally appeared ___ who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their-authorized capacity(ies); and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(e) acted, executed the instrument. **ELIZABETH JANE BEVENS** Commission # 1805632 I certify under PENALTY OF PERJURY under the laws Notary Public - California of the State of California that the foregoing paragraph is Sente Clara County Comm. Expires Jul 2, 2012 true and correct. WITNESS my hand and official seal. Place Notary Seal Above OPTIONAL Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document **Description of Attached Document** Assignment of Title or Type of Document: __ Number of Pages: Signer(s) Other Than Named Above: (1) 110 m Capacity(ies) Claimed by Signer(s) Signer's Name: Kenneth S, McElvain Signer's Name: MINdividual ☐ Individual ☐ Corporate Officer — Title(s): □ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General ☐ Attorney in Fact ☐ Attorney in Fact Top of thumb here Top of thumb here □ Trustee □ Trustee

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Other:_

Guardian or Conservator

Signer Is Hepresenting:

Guardian or Conservator

Signer Is Representing: _

Other: __

FORNIA ALL-PURPOSE ACKNOWLEDGMENT State of California county of Santa Clara otember 25,2008 before me, Elizabeth Inne 7 personally appeared __ Name(s) of Signer(s who proved to me on the basis of satisfactory evidence to be the person(e) whose name(s) is/are-subscribed to the within instrument and acknowledged to me that he/she/they-executed the same in his/her/their-authorized capacity(ies), and that by his/her/their-signature(s) on the **ELIZABETH JANE BEVENS** instrument the person(e), or the entity upon behalf of Commission # 1805632 which the person(s) acted, executed the instrument. Notary Public - California Santa Clara County I certify under PENALTY OF PERJURY under the laws My Comm. Expires Jul 2, 2012 of the State of California that the foregoing paragraph is true and correct. WITNESS my hand and official seal. Place Notary Seal Above - OPTIONAL Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document **Description of Attached Document** Title or Type of Document; Number of Pages: Signer(s) Other Than Named Above: Konneth Capacity(ies) Claimed by Signer(s) Signer's Name: William Signer's Name: 🗹 Individual ☐ Individual ☐ Corporate Officer — Title(s): ☐ Corporate Officer — Title(s): ☐ Partner — ☐ Limited ☐ General ☐ Partner — ☐ Limited ☐ General RIGHT THUMBP OF SIGNER ☐ Attorney in Fact ☐ Attorney in Fact Top of thumb here Top of thumb here □ Trustee ☐ Trustee ☐ Guardian or Conservator ☐ Guardian or Conservator Other: Other:_ Signer Is Representing: Signer Is Representing:

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