

10-14-2008



U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

FORM PTO-1595  
(Rev. 3/01)  
OMD NO. 0651-0011 exp. 5/31/2002

103529542

80-01-01

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):  
Kenneth S. McElvain  
Benoit Lemonnier  
William Halpin  
Additional name(s) of conveying party(ies) attached?  
 No  Yes

2. Name and address of receiving party(ies):  
Name: Synopsys, Inc.  
Internal Address: \_\_\_\_\_  
Street Address: 700 E. Middlefield Road  
City: Mountain View State/Province: California  
Zip: 94043 Country: United States of America  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of Conveyance  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other:  
Execution Date(s): 09/25/2008; 09/29/2008;  
09/25/2008

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)  
12/177,867  
Additional numbers attached?  Yes  No

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

5. Name and address of party to whom correspondence concerning document should be mailed:  
**James C. Scheller, Jr.**  
Name: Blakely, Sokoloff, Taylor & Zafman LLP  
Internal Address: \_\_\_\_\_  
Street Address: 1279 Oakmead Parkway  
City: Sunnyvale State: California Zip: 94085

6. Total number of applications and patents involved: 1  
7. Total Fee (37 CFR 3.41... \$40.00)  
 Enclosed  
 Authorized to be charged to deposit account  
8. Deposit Account Number: 02-2666  
(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 is true and correct and any attached copy is a true copy of the original document.*  
James C. Scheller, Jr. #31,195  Oct. 7, 2008  
Name of Person Signing Signature Date  
Total number of pages including cover sheet, attachments, and document: 6

Mail documents to be recorded with required cover sheet information to:  
Mail Stop Assignments, Director of the United States Patent and Trademark Office, P.O. Box 1450,  
Alexandria, VA 22313-1450

Atty Docket No. 02986.P1116

10/10/2008 MJAMA1 0000063 12177867  
01 FC:8021 40.00 OP

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we, the undersigned, Kenneth S. McElvain, Benoit Lemonnier, and William Halpin,

hereby sell, assign, and transfer to Synopsys, Inc.

a corporation of Delaware,

(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 12/177,867 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,

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 25, 2008  
Date

Kenneth S. McElvain  
Name: Kenneth S. McElvain

Sept 29, 2008  
Date

Benoit Lemonnier  
Name: Benoit Lemonnier

Sept 25, 2008  
Date

William M Halpin  
Name: William Halpin

Assignment Document Return Address:

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP  
1279 Oakmead Parkway  
Sunnyvale, CA 94085  
(408) 720-8300

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Santa Clara }

On Sept. 29 2008 before me, Elizabeth Jane Bevens, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Benoit Lemonnier  
Name(s) of Signer(s)

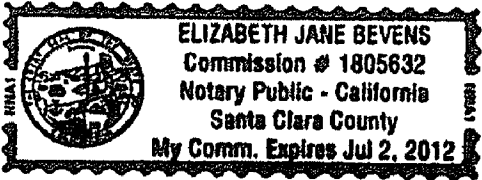
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Elizabeth Jane Bevens  
Signature of Notary Public

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: Assignment of Patent Application 12/177,867

Document Date: 7/22/08, signed on 9/29/08 Number of Pages: 2

Signer(s) Other Than Named Above: William Halpin and Kenneth S McElvain

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Benoit Lemonnier

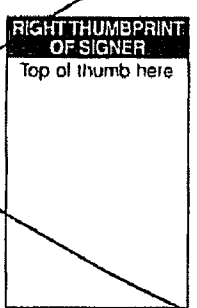
- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of Santa Clara

On September 25, 2008 before me, Elizabeth Jane Bevens, Notary Public  
Date Here Insert Name and Title of the Officer

personally appeared Kenneth Scott McElvain  
Name(s) of Signer(s)

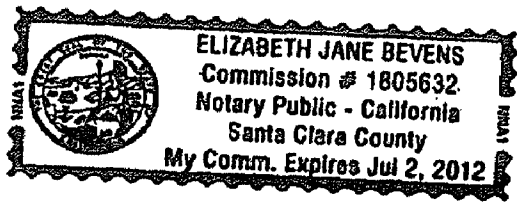
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Elizabeth Jane Bevens  
Signature of Notary Public

Place Notary Seal Above



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**Capacity(ies) Claimed by Signer(s)**

Signer's Name: Kenneth S. McElvain

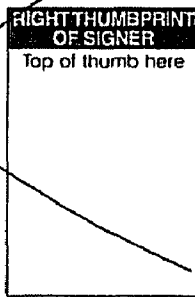
- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_



Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

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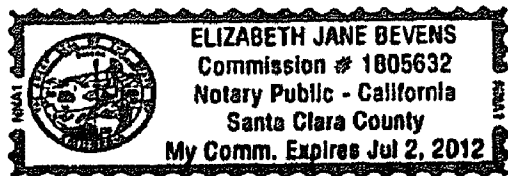
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

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**Capacity(ies) Claimed by Signer(s)**

Signer's Name: William Halpin

- Individual
- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_



~~Signer's Name: \_\_\_\_\_~~

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- Corporate Officer — Title(s): \_\_\_\_\_
- Partner —  Limited  General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: \_\_\_\_\_

~~Signer Is Representing: \_\_\_\_\_~~

