

Form PTO-1595 (Rev. 10/02) OMB No. 0651-0027 (exp. 6/30/2005)		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office	
Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼					
To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.					
1. Name of conveying party(ies): Brian Eugene Lockyear James Herbert Kukula Robert F. Damiano Carl Preston Pixley Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			2. Name and address of receiving party(ies) Name: <u>Synopsys, Inc.</u> Internal Address: _____ _____ _____ Street Address: _____ <u>700 East Middlefield Road</u> <u>Mountain View</u> State: <u>CA</u> Zip: <u>94043</u> City: _____ State: _____ Zip: _____ Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>03/02/04; 01/16/04; 02/11/04; 03/04/04</u>					
4. Application number(s) or patent number(s): <u>App. No. 10/642,885 filed 08/18/03</u> 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) _____ Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Jonathan T. Kaplan</u> Internal Address: _____ _____ _____ Street Address: _____ <u>140 Nassau Street</u> <u>New York</u> State: <u>NY</u> Zip: <u>10038</u> City: _____ State: _____ Zip: _____			6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 CFR 3.41).....\$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <u>502584</u> (Attach duplicate copy of this page if paying by deposit account)		
DO NOT USE THIS SPACE					
9. Statement and signature. <i>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.</i> <u>Jonathan T. Kaplan, Reg.No. 38,935</u> <u>Jonathan T. Kaplan</u> <u>03/25/04</u> Name of Person Signing Signature Date Total number of pages including cover sheet, attachments, and documents: <u>9</u>					

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

CH \$40.00 502584 10642885

Appl. No. **10/642,885**

B.E. Lockyear

Page 1 of 2

ASSIGNMENT

WHEREAS, I **Brian Eugene Lockyear**, a citizen of the United States of America, residing at **3045 NW Thurman St., Portland, OR 97210**, have invented one or more inventions (hereinafter referred to as "said invention(s)") disclosed in an application for Letters Patent of the United States titled "**Method and Apparatus for Solving Constraints**" (hereinafter referred to as "said application"), said application having been filed on **08/18/03** and assigned Application No. **10/642,885**.

WHEREAS, **Synopsys, Inc.** (hereinafter together with its successors and assigns referred to as "the Assignee"), a **Delaware corporation**, having a place of business at **700 East Middlefield Road, Mountain View, CA 94043**, is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, I have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon in the United States and foreign countries, and any and all reissues, reexaminations, extensions, renewals, divisions, continuations or continuations-in-part of Letters Patent granted for said invention(s) or upon said applications, to the full term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention(s), said application and said Letters Patent, the same to be held and enjoyed by the Assignee for its own use and benefit fully and entirely as if the same would have been held and enjoyed by me had this Assignment not been made. I hereby authorize the Assignee to file patent applications in any and all countries on any or all of said invention(s) in my name, or in its name, or otherwise as the Assignee may deem advisable, under the International Convention or otherwise.

I hereby authorize the Commissioner of Patents and Trademarks of the United States, and any official of any other country empowered to issue patents, to record this Assignment, and to issue or transfer all said Letters Patent on said invention(s) to the Assignee as owner of all right, title and interest therein, or otherwise as the Assignee may direct, in accordance with the terms of this Assignment.

I hereby represent and warrant that I have the full right to convey the entire right and interest herein assigned, that there are no rights or interests outstanding inconsistent with the rights and interests granted herein, and that I will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interests granted herein.

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PATENT
REEL: 014461 FRAME: 0007

Appl. No. 10/642,885
B.E. Lockyear
Page 2 of 2

ASSIGNMENT

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: March 2, 2004 Brian E Lockyear
(Signature) Brian Eugene Lockyear

STATE OF Oregon)
COUNTY OF Washington) ss.:

On this 2nd day of March, 2004, before me came **Brian Eugene Lockyear**, to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he/she has acknowledged to me that he/she has executed the same.



Rosemary E. Nichols
Notary Public

Appl. No. **10/642,885****J.H. Kukula***Page 1 of 2***ASSIGNMENT**

WHEREAS, I **James Herbert Kukula**, a citizen of the United States of America, residing at **3027 NW Overlook Dr., Hillsboro, OR 97124**, have invented one or more inventions (hereinafter referred to as "said invention(s)") disclosed in an application for Letters Patent of the United States titled "**Method and Apparatus for Solving Constraints**" (hereinafter referred to as "said application"), said application having been filed on **08/18/03** and assigned Application No. **10/642,885**.

WHEREAS, **Synopsys, Inc.** (hereinafter together with its successors and assigns referred to as "the Assignee"), a **Delaware corporation**, having a place of business at **700 East Middlefield Road, Mountain View, CA 94043**, is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, I have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon in the United States and foreign countries, and any and all reissues, reexaminations, extensions, renewals, divisions, continuations or continuations-in-part of Letters Patent granted for said invention(s) or upon said applications, to the full term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention(s), said application and said Letters Patent, the same to be held and enjoyed by the Assignee for its own use and benefit fully and entirely as if the same would have been held and enjoyed by me had this Assignment not been made. I hereby authorize the Assignee to file patent applications in any and all countries on any or all of said invention(s) in my name, or in its name, or otherwise as the Assignee may deem advisable, under the International Convention or otherwise.

I hereby authorize the Commissioner of Patents and Trademarks of the United States, and any official of any other country empowered to issue patents, to record this Assignment, and to issue or transfer all said Letters Patent on said invention(s) to the Assignee as owner of all right, title and interest therein, or otherwise as the Assignee may direct, in accordance with the terms of this Assignment.

I hereby represent and warrant that I have the full right to convey the entire right and interest herein assigned, that there are no rights or interests outstanding inconsistent with the rights and interests granted herein, and that I will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interests granted herein.

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PATENT
REEL: 014461 FRAME: 0009

Appl. No. **10/642,885**

J.H. Kukula

Page 2 of 2

ASSIGNMENT

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

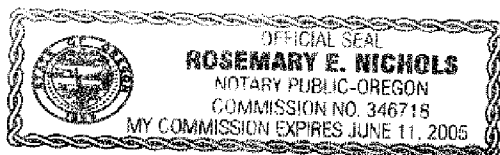
Date: 1/16/2004

James Herbert Kukula
(Signature) **James Herbert Kukula**

STATE OF Oregon)
COUNTY OF Washington)

ss.:

On this 16th day of January, 2004, before me came **James Herbert Kukula**, to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he/she has acknowledged to me that he/she has executed the same.



Rosemary E. Nichols
Notary Public

Appl. No. 10/642,885

R.F. Damiano

Page 1 of 2

ASSIGNMENT

WHEREAS, I Robert F. Damiano, a citizen of the United States of America, residing at 2650 Lookout Court, Lake Oswego, Oregon 97034, have invented one or more inventions (hereinafter referred to as "said invention(s)") disclosed in an application for Letters Patent of the United States titled "Method and Apparatus for Solving Constraints" (hereinafter referred to as "said application"), said application having been filed on 08/18/03 and assigned Application No. 10/642,885.

WHEREAS, Synopsys, Inc. (hereinafter together with its successors and assigns referred to as "the Assignee"), a Delaware corporation, having a place of business at 700 East Middlefield Road, Mountain View, CA 94043, is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, I have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon in the United States and foreign countries, and any and all reissues, reexaminations, extensions, renewals, divisions, continuations or continuations-in-part of Letters Patent granted for said invention(s) or upon said applications, to the full term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention(s), said application and said Letters Patent, the same to be held and enjoyed by the Assignee for its own use and benefit fully and entirely as if the same would have been held and enjoyed by me had this Assignment not been made. I hereby authorize the Assignee to file patent applications in any and all countries on any or all of said invention(s) in my name, or in its name, or otherwise as the Assignee may deem advisable, under the International Convention or otherwise.

I hereby authorize the Commissioner of Patents and Trademarks of the United States, and any official of any other country empowered to issue patents, to record this Assignment, and to issue or transfer all said Letters Patent on said invention(s) to the Assignee as owner of all right, title and interest therein, or otherwise as the Assignee may direct, in accordance with the terms of this Assignment.

I hereby represent and warrant that I have the full right to convey the entire right and interest herein assigned, that there are no rights or interests outstanding inconsistent with the rights and interests granted herein, and that I will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interests granted herein.

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PATENT
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Appl. No. 10/642,885

R.F. Damiano

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ASSIGNMENT

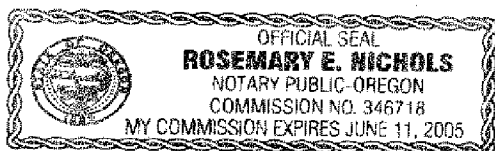
IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 2/11/04

Robert F. Damiano
(Signature) Robert F. Damiano

STATE OF Oregon)
COUNTY OF Washington) ss.:

On this 11th day of February, 2004, before me came Robert F. Damiano, to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he/she has acknowledged to me that he/she has executed the same.



Rosemary E. Nichols
Notary Public

Appl. No. **10/642,885****C.P. Pixley***Page 1 of 2***ASSIGNMENT**

WHEREAS, I **Carl Preston Pixley**, a citizen of the United States of America, residing at **16670 NW Mission Oaks Drive, Beaverton, Oregon 97006**, have invented one or more inventions (hereinafter referred to as "said invention(s)") disclosed in an application for Letters Patent of the United States titled "**Method and Apparatus for Solving Constraints**" (hereinafter referred to as "said application"), said application having been filed on **08/18/03** and assigned Application No. **10/642,885**.

WHEREAS, **Synopsys, Inc.** (hereinafter together with its successors and assigns referred to as "the Assignee"), a **Delaware corporation**, having a place of business at **700 East Middlefield Road, Mountain View, CA 94043**, is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which I hereby acknowledge, I have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon in the United States and foreign countries, and any and all reissues, reexaminations, extensions, renewals, divisions, continuations or continuations-in-part of Letters Patent granted for said invention(s) or upon said applications, to the full term or terms for which said Letters Patent may be issued, and every priority right that is or may be predicated upon or arise from said invention(s), said application and said Letters Patent, the same to be held and enjoyed by the Assignee for its own use and benefit fully and entirely as if the same would have been held and enjoyed by me had this Assignment not been made. I hereby authorize the Assignee to file patent applications in any and all countries on any or all of said invention(s) in my name, or in its name, or otherwise as the Assignee may deem advisable, under the International Convention or otherwise.

I hereby authorize the Commissioner of Patents and Trademarks of the United States, and any official of any other country empowered to issue patents, to record this Assignment, and to issue or transfer all said Letters Patent on said invention(s) to the Assignee as owner of all right, title and interest therein, or otherwise as the Assignee may direct, in accordance with the terms of this Assignment.

I hereby represent and warrant that I have the full right to convey the entire right and interest herein assigned, that there are no rights or interests outstanding inconsistent with the rights and interests granted herein, and that I will not execute any instrument or grant or transfer any rights or interests inconsistent with the rights and interests granted herein.

Appl. No. 10/642,885

C.P. Pixley

Page 2 of 2

ASSIGNMENT

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.

Date: 4 March 2004

Carl Preston Pixley
(Signature) Carl Preston Pixley

STATE OF

Oregon
Washington

ss.:

COUNTY OF

On this 4th day of March, 2004, before me came **Carl Preston Pixley**, to me known and known to me to be the individual described in, and who executed the foregoing instrument, and he/she has acknowledged to me that he/she has executed the same.



Rosemary E. Nichols
Notary Public