

06-08-2005

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S/31/05

To the Director of the United States Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

**ZongWu Tang
Juhwan Kim
Daniel Zhang
Haiqing Wei
Gang Huang**

Execution Date(s): 05/31/2005, 05/27/2005,
05/27/2005, 05/13/2005, 05/31/2005

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

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

Name: **Synopsys, Inc.**

Internal Address:

Street Address: 700 E. Middlefield Road

City/State: Mountain View, CA

Country: US Zip: 94043-4033

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

113219 U.S.PTO
11/142789

053105

3. Nature of conveyance:

- Assignment
- Security Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other: _____
- Merger
- Change of Name

4. Application or patent number(s):

A. Patent Application No.(s):

B. Patent No.(s):

This document is being filed together with a new application.

Additional numbers attached? Yes No

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

Name: John M. Kubodera, Esq.
Address: Bever, Hoffman & Harms, LLP
Street Address: 2099 Gateway Place, Suite 320
City/State: San Jose CA Zip: 95110
Phone Number: (408) 451-5903
Fax Number: (408) 451-5908
Email Address: jkubodera@beverlaw.com

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
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit account number: 50-0574
(Attorney Docket No.: SYN-0636)
Authorized User Name: John M. Kubodera

06/08/2005 ECDOPER 00000018 500574 11142789

01 FC:8021

40.00 DA

9. Signature.

John M. Kubodera
Name of Person Signing

May 31, 2005
Date

Total number of pages including cover sheet, attachments, and documents: [5]

Documents to be recorded (including cover sheet) should be faxed to; (703) 306-5995, or mailed to;
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

**PATENT
REEL: 016649 FRAME: 0341**

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I/we

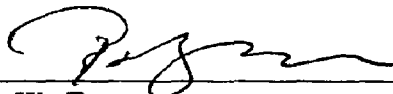
ZongWu Tang of 4355 Diavila Avenue Pleasanton, CA 94588
Juhwan Kim of 1717 Magnolia Circle Pleasanton, CA 94566
Daniel Zhang of 1509 Fairway Green Circle San Jose, CA 95131
Haiqing Wei of 3941 Bouquet Park Lane San Jose, CA 95135
Gang Huang of 1685 Brookvale Dr. #4 San Jose, CA 95129

hereby sell, assign and transfer to Synopsys, Inc., a Delaware corporation, having a place of business at 700 E. Middlefield Road Mountain View, CA 94043-4033, its successors and assigns, the entire right, title and interest throughout the world in our invention in

"CENTERLINE-BASED PINCH/BRIDGE DETECTION"

for which we will execute a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

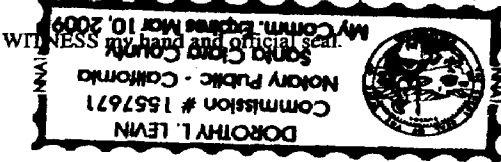
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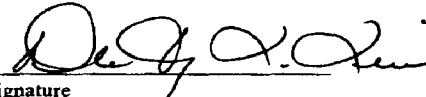

ZongWu Tang

State of California)
) ss.
County of Santa Clara)


CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On 31 May 2005 before me, Dorothy L. Levin, personally appeared ZongWu Tang
[] 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.




Signature

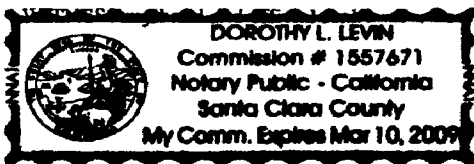
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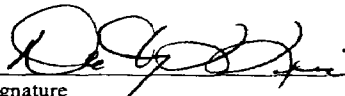

Juhwan Kim

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On 27 May 2005 before me, Dorothy L. Levin, personally appeared Juhwan Kim
[] 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.




Signature

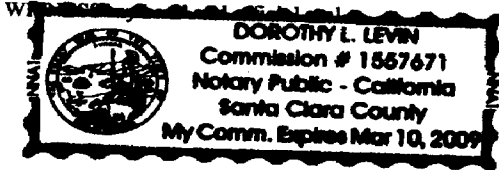
Executed this 27 day of May, 2005.

Daniel Zhang
Daniel Zhang

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On 27 MAY 2005 before me, Dorothy L. Levin, personally appeared Daniel Zhang
[X] 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.



Daniel Zhang
Signature

Executed this _____ day of _____, 2005.

Haiqing Wei

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On _____ before me, _____, personally appeared Haiqing Wei
[] 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.

Signature

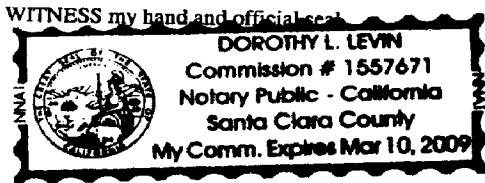
Executed this 31 day of May, 2005.

Gang Huang
Gang Huang

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On 31 MAY 2005 before me, Dorothy L. Levin, personally appeared Gang Huang
[X] 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.



Gang Huang
Signature

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, I/we

ZongWu Tang of 4355 Diavila Avenue Pleasanton, CA 94588
Juhwan Kim of 1717 Magnolia Circle Pleasanton, CA 94566
Daniel Zhang of 1509 Fairway Green Circle San Jose, CA 95131
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“CENTERLINE-BASED PINCH/BRIDGE DETECTION”

for which we will execute a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request the Commissioner of Patents and Trademarks to issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this _____ day of _____, 2005.

State of California)
) ss.
County of Santa Clara)

ZongWu Tang

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On _____ before me, _____, personally appeared ZongWu Tang
[] 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.

Signature

Executed this _____ day of _____, 2005.

State of California)
) ss.
County of Santa Clara)

Juhwan Kim

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On _____ before me, _____, personally appeared Juhwan Kim
[] 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.

Signature

Executed this _____ day of _____, 2005.

Daniel Zhang

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On _____ before me, _____, personally appeared Daniel Zhang
[] 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.

Signature



Haiqing Wei

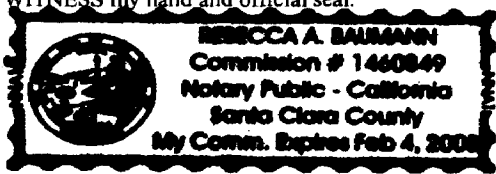
Executed this 13th day of May, 2005.

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On 5-13-2005 before me, REBECCA A. BAUMANN, personally appeared Haiqing Wei
[] personally known to me --or-- [X] 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.




Signature

Executed this _____ day of _____, 2005.

Gang Huang

State of California)
) ss.
County of Santa Clara)

CAPACITY CLAIMED BY SIGNER
() individual(s) signing for
[X] oneself/themselves

On _____ before me, _____, personally appeared Gang Huang
[] 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.

Signature