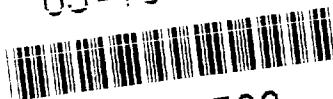


03-10-2003



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RECORDATION FORM COVER SHEET PATENTS ONLY

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Docket No. 19535-7234

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

1. Name of conveying party(ies):

Thanh Vuong
William H. Kao
David C. Noice

3-6-03

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

Name: **Cadence Design Systems, Inc.**
Address: **2655 Seely Avenue**
City: **San Jose** State: **CA**
Zip Code: **95134**

☒ Individual(s)☐ Association☐ General Partnership☐ Limited Partnership☐ Corporation-State☐ OtherAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other:Additional name(s) & address(es) attached? ☐ Yes ☒ No

Execution Dates: 02/12/2003; 02/05/2003; 02/05/2003

4. Application number(s) or patent number(s):

If this document is being filed with a new application, the execution date of the application is:

A. Patent Application No.(s): 10/300,544

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

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

Peter C. Mei
Bingham McCutchen LLP
Three Embarcadero, Suite 1800
San Francisco, CA 94111-4067

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. § 3.41): \$40.00

☐ Enclosed☒ Authorized to be charged to deposit account no. **50-2518**, referencing Attorney Docket No. **19535-7234**8. Deposit account number: **50-2518**

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. §1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 50-2518

DO NOT USE THIS SPACE

9. Statement and signature.

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.

Name: Erin C. Ming
Registration No. 47,797

Signature

Date: 2-18-03

Total number of pages comprising cover sheet, attachments and document: 6

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52103903.1/2019535-2195357234

PATENT
REEL: 013814 FRAME: 0499

ASSIGNMENT OF PATENT APPLICATION

WHEREAS, WE, **THANH VUONG**, a citizen of the United States of America, **WILLIAM H. KAO**, a citizen of the United States of America, and **DAVID C. NOICE**, a citizen of the United States of America (hereinafter referred to as "ASSIGNORS"), have invented a certain invention entitled **METHOD, SYSTEM, AND ARTICLE OF MANUFACTURE FOR IMPLEMENTING METAL-FILL WITH POWER OR GROUND CONNECTION** for which application for Letters Patent of the United States of America was filed on **November 19, 2002**, assigned Serial No. **10/300,544**; and

WHEREAS, **CADENCE DESIGN SYSTEMS, INC.**, a corporation organized and existing under and by virtue of the laws of the state of **DELAWARE** and having its place of business at **2655 Seely Avenue, San Jose, California 95134** (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the exclusive right, title and interest in, to and under said invention and in, to and under any Patent or similar legal protection to be obtained therefore in the United States of America, its territorial possessions and in any and all countries foreign thereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign, transfer and set over unto the said ASSIGNEE, its successors and assigns, the full and exclusive right, title and interest to said invention and to all Letters Patent or application or similar legal protection, not only in the United States and its territorial possessions, but in all countries foreign thereto to be obtained for said invention by said application, and to any continuation, division, renewal, substitute or reissue thereof or any legal equivalent thereof in the United States or a foreign country for the full term or terms for which the

same may be granted, including all priority rights under the International Convention; and ASSIGNORS hereby authorize and request the United States Commissioner of Patents and Trademark and any officials of foreign countries whose duty it is to issue patents or any legal equivalent thereof to said ASSIGNEE, its successors and assigns, in accordance with this Agreement.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Agreement.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents in the United States or in any foreign county, which may be necessary or desirable to carry out the purpose thereof.

WITNESS my hand at San Jose Ca,
this 12 day of Feb, 2003.

Thanh V. Vuong
THANH VUONG

STATE OF CALIFORNIA)
) ss
COUNTY OF SANTA CLARA)

On 2-12-03 before me, Judith Featherstone, personally
appeared Thanh Vuong

☐ personally known to me – **OR- ☒** 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.

WITNESS my hand and official seal.

Judith Featherstone
Notary Public



WITNESS my hand at San Jose, California,
this 5th day of February, 2003.

William H. Kao
WILLIAM H. KAO

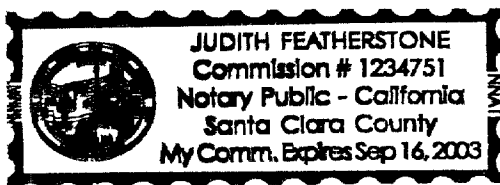
STATE OF CALIFORNIA)
) ss
COUNTY OF SANTA CLARA)

On 2-5-03 before me, Judith Featherstone, personally
appeared William H. Kao

☐ personally known to me – **OR-~~X~~** 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.

WITNESS my hand and official seal.

Judith Featherstone
Notary Public in and for said County and State



WITNESS my hand at San Jose, CA,
this Fifth day of February, 2003.

David C. Noice
DAVID C. NOICE

STATE OF CALIFORNIA)
) ss
COUNTY OF SANTA CLARA)

On 2-5-03 before me, Judith Featherstone, personally
appeared David C. Noice

☐ personally known to me – **OR** – ☒ 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.

WITNESS my hand and official seal.

Judith Featherstone
Notary Public in and for said County and State

