

Form PTO-1595 (Rev. 03-11)
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MR3529-65/DIV

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

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

1. Name of conveying party(ies)

RANDALL SCOTT LAWSON; SEAN BERGAN; JOSEPH DEXTER SMEDLEY;
PAUL S. MUSTO; BRETT ALLEN NEAL; RICHARD ALLEN WOODWARD, JR.;
JELENA RADUMILO-FRANKLIN; FRANK FARMAR; GREGORY M. HORLICK

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

2. Name and address of receiving party(ies)

Name: CADENCE DESIGN SYSTEMS, INC.

Internal Address: _____

Street Address: 2655 SEELY AVENUE

City: SAN JOSE

State: CALIFORNIA

Country: USA Zip: 95134

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) 3/15/12; 3/15/12; 3/15/12;
3/15/12; 3/16/12; 3/15/12;
3/15/12; 3/15/12; 3/19/12;

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

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

13/910,616

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Jun Y. Lee

Internal Address: Rosenberg, Klein & Lee

Street Address: 3458 Ellicott Center Drive, Suite 101

City: Ellicott City

State: MD Zip: 21043

Phone Number: 410-465-6678

Fax Number: 410-461-3067

Email Address: rkl@rklpatlaw.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 to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 50-5298

Authorized User Name Jun Y. Lee

9. Signature:

Jun Y. Lee
Signature

7/12/2013
Date

Jun Y. Lee
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1460, Alexandria, V.A. 22313-1460

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ASSIGNMENT DEED

This Assignment agreement is applicable to an invention entitled (invention Title) METHOD AND SYSTEM FOR ROUTING OPTIMALLY BETWEEN TERMINALS THROUGH INTERMEDIATE VIAS IN A CIRCUIT DESIGN

The PATENT RIGHTS referred to in this agreement are:

- (Check one) a Patent Application for this invention, executed by the ASSIGNOR(s) concurrently with this Assignment
- U.S. Patent Application Serial No. 13/432,904, filed 3/28/2012
- U.S. Patent No. _____, issued _____

The PATENT RIGHTS assigned under this agreement are:

- (Check one) U.S. Patent rights only
- worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any U.S. Patent Application identified above.

The ASSIGNOR(s) referred to in this agreement is (or are):

(Full name of first assignor) RANDALL SCOTT LAWSON
(Address) 27 Atlantic Ave., Seabrook, NH 03874

(Full name of second assignor, if any) SEAN BERGAN
(Address) 12 Greenwood Rd., Andover, MA 01810

(Full name of third assignor, if any) JOSEPH DEXTER SMEDLEY
(Address) 58 Davis Rd., Chelmsford, MA 01824

(Full name of fourth assignor, if any) PAUL S. MUSTO
(Address) 13 Barton Road, Hollis, NH 03049

see attached sheet for additional assignors

The First ASSIGNEE referred to in this agreement is:

(Name of Assignee) CADENCE DESIGN SYSTEMS, INC.
(Address of Assignee) 2655 Seely Avenue, San Jose, California 95134

The Second ASSIGNEE referred to in this agreement is:

(Name of Assignee) _____
(Address of Assignee) _____

The First ASSIGNEE is:

- (Check one) an individual
- a partnership
- a Corporation of State of Delaware
(State or Country)

The Second ASSIGNEE is:

- (Check one) an individual
- a partnership
- a Corporation of _____
(State or Country)

Additional assignees are being named on separately numbered sheets attached hereto.

The ASSIGNOR(S), in consideration of \$1.00 paid by each ASSIGNEE, and other good and valuable consideration, receipt of which is acknowledged, have and do hereby assign the following to each ASSIGNEE; their successors and assigns:

- the full and exclusive right to the invention;
- an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and
- the right to claim priority under 35 U.S.C. 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and requests the Director of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(s) as the ASSIGNEE(s) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(s), their successors and assigns.

Further, the ASSIGNOR(s) agree(s) to communicate to said ASSIGNEE(s), or their representatives, any facts known to the ASSIGNOR(s) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(s), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(s), their successors and assigns, to obtain and enforce proper protection for said invention.

Randall Scott Lawson (Signature of sole or first assignor) RANDALL SCOTT LAWSON 3/15/12 (Date)

Sean Bergan (Signature of second assignor, if any) SEAN BERGAN 3/15/12 (Date)

Joseph Dexter Smedley (Signature of third assignor, if any) JOSEPH DEXTER SMEDLEY 3/15/12 (Date)

Paul S. Musto (Signature of fourth assignor, if any) PAUL S. MUSTO 3/15/12 (Date)

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ASSIGNMENT DEED PAGE 2

(Full name of fifth assignor, if any) BRETT ALLEN NEAL
16075 Bridle Ridge Dr., Monument, CO 80132

(Full name of sixth assignor, if any) RICHARD ALLEN WOODWARD, JR.
11465 Spruce Run Dr., San Diego, CA 92131

(Full name of seventh assignor, if any) JELENA RADUMILO-FRANKLIN
46 Village View Rd., Westford, MA 01886

(Full name of eighth assignor, if any) FRANK FARMAR
5 Elizabeth Ct., Amherst, NH 03031

(Full name of ninth assignor, if any) GREGORY M. HORLICK
104 Lillians Way, Madison, AL 35758


(Signature of fifth Assignor) BRETT ALLEN NEAL

3-16-12
Date

(Signature of sixth Assignor) RICHARD ALLEN WOODWARD, JR. Date

(Signature of seventh Assignor) JELENA RADUMILO-FRANKLIN Date

(Signature of eighth Assignor) FRANK FARMAR Date

(Signature of ninth Assignor) GREGORY M. HORLICK Date

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5 Elizabeth Ct., Amherst, NH 03031

(Full name of ninth assignor, if any) GREGORY M. HORLICK
104 Lillians Way, Madison, AL 35758

(Signature of fifth Assignor BRETT ALLEN NEAL _____ Date _____


(Signature of sixth Assignor RICHARD ALLEN WOODWARD, JR. _____ Date 3/15/2012

(Signature of seventh Assignor JELENA RADUMILO-FRANKLIN _____ Date _____

(Signature of eighth Assignor FRANK FARMAR _____ Date _____

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104 Lillians Way, Madison, AL 35758

(Signature of fifth Assignor BRETT ALLEN NEAL _____ Date

(Signature of sixth Assignor RICHARD ALLEN WOODWARD, JR. _____ Date

 _____
(Signature of seventh Assignor JELENA RADUMILO-FRANKLIN _____ Date 03/15/2012

 _____
(Signature of eighth Assignor FRANK FARMAR _____ Date 3/15/2012

(Signature of ninth Assignor GREGORY M. HORLICK _____ Date

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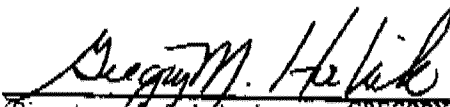
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Date

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Date

(Signature of seventh Assignor) JELENA RADUMILO-FRANKLIN _____
Date

(Signature of eighth Assignor) FRANK FARMAR _____
Date


(Signature of ninth Assignor) GREGORY M. HORLICK _____
3/19/12
Date