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TO: The Commissioner of Patents and Trademarks	084312 : Please record the attached orig	ginal document(s) or copy(ies).		
Submission Type 🥱	Conveyance Type			
Submission Type 3. 1-0 ✓	☑ Assignment	☐ Security Agreement		
☐ Resubmission (Non-Recordation) Document ID #	☐ License	☐ Change of Name		
☐ Correction of PTO Error Reel # Frame #	☐ Merger	☐ Other		
Corrective Document Reel # Frame #				
Attorney Docket No. CDN.P0008				
O : D : (;)	names of conveying parties attached	Execution Date MMDDYYYY		
Name (1 st party) _ Teig, Steven		05082003		
Name (2 nd party) Caldwell, Andrew		05082003		
Name (3 rd party) Name (4 th party)				
	al names of receiving parties attached	—		
Name Cadence Design Systems, Inc.	N - 1/2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	☐ If document to be recorded is ☐ an assignment and the receiving		
Name A Delaware Corporation		party is not domiciled in the U.S.,		
Address 2655 Seely Avenue Address		an appointment of a domestic representative is attached.		
Address San Jose, CA 95134		(Designation must be a separate document from Assignment)		
City State/Count	ry Zip Code	doddinent from Assignment)		
Domestic Representative (Complete only if receiving party is not domiciled in the United States)				
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Mail documents to be recorded with required cover sheet(s) information to:

Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office, P.O. Box 1450,

Alexandria, VA 22313-1450

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PATENT REEL: 015023 FRAME: 0639

Form PTO-1619B (Modified)	RECORDATION FORM COVER SHEET Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT		
Correspondent Na	ame and Address			
Name: Address: Telephone Number: Fax Number:	Mani Adeli Stattler Johansen & Adeli LLP P.O. Box 51860 Palo Alto, California 94303-0728 (650) 752-0990, ext. 102 (650) 752-0995			
-	the total number of pages of the attached conveyance nent including any attachments.	2		
If this document is being fi Application was signed by Patent Cooperation	led together with a new Patent Application, enter the date the patent the first named executing inventor. MMDDYYYY In Treaty (PCT)			
	as not been assigned.			
Number of Properties Enter the total number of properties involved				
Fee Amount	Fee Amount for Propetries Listed (37CFR3.41) \$	40.00		
Deposit Accou				
	Deposit Account Number:	#50 1128		
Ctatamant and Civ	Authorization to charge additional fee	s: Yes 🗵 No 🗆		
Statement and Sig To the best of my kno a true copy of the orig Mani Adeli	wledge and belief, the foregoing information is true and corre inal document. Charges to deposit account are authorized, a	ect and any attached copy is s indicated herein.		
Name of Person Signing	Signature	Date		

PATENT

REEL: 015023 FRAME: 0640

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of:

Steve Teig

Serial No.: 10/233,202

Filing Date: 8/28/02

For: TOPOLOGICAL VIAS

JOINT INVENTOR TO CORPORATION ASSIGNMENT

WHEREAS, the undersigned Inventors have invented certain new and useful improvements in:

TOPOLOGICAL VIAS

and have executed a declaration or oath for an application for a United States patent disclosing and identifying the invention:

Said application having Serial Number 10/233,202 and filed on August 28, 2002.

WHEREAS Cadence Design Systems (hereinafter termed "Assignee"), a corporation of the State of Delaware, having a place of business at 2655 Seely Avenue, San Jose, CA 95134, wishes to acquire the entire right, title and interest in and to said application and the invention disclosed therein, and in and to all embodiments of the invention, heretofore conceived, made or discovered jointly or severally by said Inventors (all collectively hereinafter termed "said invention"), and in and to any and all patents, certificates of invention and other forms of protection thereon (hereinafter termed "patents") applied for or granted in the United States and/or other countries.

NOW THEREFORE, for good and valuable consideration acknowledged by each of said Inventors to have been received in full from said Assignee:

1. Said Inventors do hereby sell, assign, transfer and convey to said Assignee, the entire right, title and interest (a) in and to said application and said invention; (b) in and to all rights to apply in any or all countries of the world for patents, certificates of inventions or other governmental grants on said invention, including the right to apply for patents pursuant to the International Convention for the Protection of Industrial Property or pursuant to any other convention, treaty, agreement or understanding; (c) in and to any and all applications filed and any and all patents, certificates of inventions or other governmental grants granted on said invention in the United States or any other country, including each and every application filed and each and every patent granted on any application which is a division, substitution, or continuation of any of said applications; (d) in and to each and every reissue or extension of any of said patents; and (e) in and to each and every patent claim resulting from a reexamination certificate for any and all of said patents.

-1-

Attorney Docket No. CDN.P0008

- 2. Said Inventors hereby jointly and severally covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest herein conveyed in the United States and other countries. Such cooperation by said Inventors shall include prompt production of pertinent facts and documents, giving of testimony, executing of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for complying with any duty of disclosure; (c) for prosecuting any of said applications; (d) for filing and prosecuting substitute, divisional, continuing or additional applications covering said invention; (e) for filing and prosecuting applications for reissue of any of said patents; (f) for interference or other priority proceedings involving said invention; and (g) for legal proceedings involving said invention and any applications therefor and any patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, reexamination proceedings, compulsory licensing proceedings, infringement actions and court actions: provided, however, that the expense incurred by said Inventors in providing such cooperation shall be paid for by said Assignee.
- 3. The terms and covenants of this Assignment shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Inventors, their respective heirs, legal representatives, and assigns.
- 4. Said Inventors hereby jointly and severally warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Inventors have executed this instrument on the date of acknowledgement as given below and delivered this instrument to said Assignee.

(1)	Steven Tog Date: 5/8/03	

(2)	Date: 5-8:03	
	Andrew Caldwell	

RECORDED: 03/01/2004