

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Rajit Chandra</td><td>06/17/2008</td></tr><tr><td>John Yanjiang Shu</td><td>06/17/2008</td></tr><tr><td>Adi Srinivasan</td><td>06/17/2008</td></tr><tr><td>Paolo Carnevali</td><td>06/20/2008</td></tr></tbody></table>		Name	Execution Date	Rajit Chandra	06/17/2008	John Yanjiang Shu	06/17/2008	Adi Srinivasan	06/17/2008	Paolo Carnevali	06/20/2008
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Rajit Chandra	06/17/2008										
John Yanjiang Shu	06/17/2008										
Adi Srinivasan	06/17/2008										
Paolo Carnevali	06/20/2008										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>Gradient Design Automation, Inc.</td></tr><tr><td>Street Address:</td><td>4633 Old Ironsides Drive, Suite 200</td></tr><tr><td>City:</td><td>Santa Clara</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95054</td></tr></table>		Name:	Gradient Design Automation, Inc.	Street Address:	4633 Old Ironsides Drive, Suite 200	City:	Santa Clara	State/Country:	CALIFORNIA	Postal Code:	95054
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PROPERTY NUMBERS Total: 2											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>60941660</td></tr><tr><td>Application Number:</td><td>12131821</td></tr></tbody></table>		Property Type	Number	Application Number:	60941660	Application Number:	12131821				
Property Type	Number										
Application Number:	60941660										
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CORRESPONDENCE DATA											
Fax Number: (512)869-8268 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 512-869-2068											
Email: Bennett@patentventures.com											
Correspondent Name: Walstein Bennett Smith III											
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Address Line 4: Georgetown, TEXAS 78627											
ATTORNEY DOCKET NUMBER:	GDA-2007-02NP										
NAME OF SUBMITTER:	Joanne Winningham										

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PATENT
REEL: 021238 FRAME: 0463

Total Attachments: 4

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PATENT

REEL: 021238 FRAME: 0464

Assignment

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

Whereas, I have made an invention and based thereon:

☒ A U.S. Provisional Application for Patent, Docket No. GDA-2007-02, entitled SIMULATION OF IC TEMPERATURE DISTRIBUTIONS USING A HIERARCHICAL GRID was filed June 2, 2007, and subsequently assigned Serial No. 60/941,660; and

☒ A U.S. Non-Provisional Application for Patent, Docket No. GDA-2007-02NP, entitled THERMAL SIMULATION USING ADAPTIVE 3D AND HIERARCHICAL GRID MECHANISMS, and having the inventors named herein, was:

☒ filed June 2, 2008, and subsequently assigned Serial No. 12/131,821;

☐ executed by me on even date herewith;


☐ executed on _____.

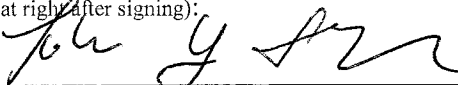
Now, therefore, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto Gradient Design Automation Inc., a corporation of Delaware, having its principal office at 4633 Old Ironsides Drive, Suite 200, Santa Clara, CA 95054, its successors and assigns, the entire right, title and interest in and to the said invention and application(s), and in and to any subsequent applications that claim priority to or continue from said application(s), and in and to any and all Letters Patent and reissues and extensions thereof, of the United States of America, countries foreign thereto, and multi-government organizations (including the right to apply for Letters Patent in foreign countries and before multi-government entities in its own name and to claim any priority rights for such foreign and multi-government applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted on any of the foregoing to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

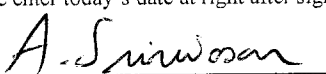
I do further agree for myself and for my heirs, executors and administrators, to execute and deliver without further consideration any further applications, assignments and documents, that may be deemed reasonable and necessary to obtain Letters Patent in any or all countries;

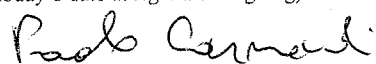
And I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to the said Gradient Design Automation Inc., as the assignee of the entire interest therein.

In witness whereof, I have hereunto signed my name on the day and year set forth below.

Sole or First Joint Inventor's Full Legal Name		<i>Before signing, make any corrections via Inventor initialed and dated strikethrough. An entry is required in every box.</i>
Given Name (At least one name without abbreviation that distinguishes you from others with the same family name, and any additional names or abbreviations/initials): Rajit	Family Name (Your surname): Chandra	
Signature (you are indicating that you have read and agree with this multipage legal document; please enter today's date at right after signing): 		Date (mth/day/yr): 6/17/2008
Mailing Address (where you as a private individual normally receive mail, including ZIP): 11101 Bubb Road, Cupertino, CA 95014		
Residence (City and State/Country where you keep the home, apartment, or other abode, where you presently live): Cupertino, CA /US		
Citizenship (Name of any one specific country where you are presently a legal citizen): US		

Second Joint Inventor's Full Legal Name		<i>Before signing, make any corrections via Inventor initialed and dated strikethrough. An entry is required in every box.</i>
Given Name (At least one name without abbreviation that distinguishes you from others with the same family name, and any additional names or abbreviations/initials): John Yanjiang	Family Name (Your surname): Shu	
Signature (you are indicating that you have read and agree with this multipage legal document; please enter today's date at right after signing): 		Date (mth/day/yr): 6/17/08
Mailing Address (where you as a private individual normally receive mail, including ZIP): 595 Loyola Way, Livermore, CA 94550		
Residence (City and State/Country where you keep the home, apartment, or other abode, where you presently live): Livermore, CA/US		
Citizenship (Name of any one specific country where you are presently a legal citizen): US		

Third Joint Inventor's Full Legal Name		<i>Before signing, make any corrections via Inventor initialed and dated strikethrough. An entry is required in every box.</i>
Given Name (At least one name without abbreviation that distinguishes you from others with the same family name, and any additional names or abbreviations/initials): Adi	Family Name (Your surname): Srinivasan	
Signature (you are indicating that you have read and agree with this multipage legal document; please enter today's date at right after signing): 		Date (mth/day/yr): 6 / 17 / 2008
Mailing Address (where you as a private individual normally receive mail, including ZIP): 4633 Old Ironsides Drive, Suite 200, Santa Clara, CA 95054		
Residence (City and State/Country where you keep the home, apartment, or other abode, where you presently live): Fremont, CA/US		
Citizenship (Name of any one specific country where you are presently a legal citizen): US		

Fourth Joint Inventor's Full Legal Name		<i>Before signing, make any corrections via Inventor initialed and dated strikethrough. An entry is required in every box.</i>
Given Name (At least one name without abbreviation that distinguishes you from others with the same family name, and any additional names or abbreviations/initials): Paolo	Family Name (Your surname): Carnevali	
Signature (you are indicating that you have read and agree with this multipage legal document; please enter today's date at right after signing): 		Date (mth/day/yr): 6 / 20 / 08
Mailing Address (where you as a private individual normally receive mail, including ZIP): 1830 Frobisher Way, San Jose, CA 95124		
Residence (City and State/Country where you keep the home, apartment, or other abode, where you presently live): San Jose, CA/US		
Citizenship (Name of any one specific country where you are presently a legal citizen): US		

State of California

County of _____

On _____, before me, _____
(here insert name and title of the officer)

personally appeared _____,
_____, and _____.

who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing
paragraph is true and correct.

WITNESS my hand and official seal.

Signature of Notary Public