

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
William M. Johnson	11/18/2011
Murali S. Chinnakonda	11/18/2011
Jeffrey L. Nye	11/18/2011
Toshio Nagata	11/18/2011
John W. Glotzbach	11/18/2011
Hamid R. Sheikh	11/18/2011
Ajay Jayaraj	11/18/2011
Shalini Gupta	11/18/2011
Robert J.P. Nychka	11/18/2011
David H. Bartley	11/18/2011
Ganesh Sundararajan	11/18/2011

RECEIVING PARTY DATA

Name:	Texas Instruments Incorporated
Street Address:	12500 TI Boulevard (M/S 3999)
City:	Dallas
State/Country:	TEXAS
Postal Code:	75243

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13232774

CORRESPONDENCE DATA

Fax Number: (214)479-1273  
Phone: 214-479-1239  
Email: mathewson@ti.com

*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*

501740399

PATENT  
REEL: 027313 FRAME: 0088

CH \$40.00 13232774

Correspondent Name: John J. Patti  
Address Line 1: 12500 TI Boulevard (M/S 3999)  
Address Line 4: Dallas, TEXAS 75243

ATTORNEY DOCKET NUMBER: TI-69752

NAME OF SUBMITTER: Tina Mathewson

**Total Attachments: 44**

source=69752\_Assign\_US#page1.tif  
source=69752\_Assign\_US#page2.tif  
source=69752\_Assign\_US#page3.tif  
source=69752\_Assign\_US#page4.tif  
source=69752\_Assign\_US#page5.tif  
source=69752\_Assign\_US#page6.tif  
source=69752\_Assign\_US#page7.tif  
source=69752\_Assign\_US#page8.tif  
source=69752\_Assign\_US#page9.tif  
source=69752\_Assign\_US#page10.tif  
source=69752\_Assign\_US#page11.tif  
source=69752\_Assign\_US#page12.tif  
source=69752\_Assign\_US#page13.tif  
source=69752\_Assign\_US#page14.tif  
source=69752\_Assign\_US#page15.tif  
source=69752\_Assign\_US#page16.tif  
source=69752\_Assign\_US#page17.tif  
source=69752\_Assign\_US#page18.tif  
source=69752\_Assign\_US#page19.tif  
source=69752\_Assign\_US#page20.tif  
source=69752\_Assign\_US#page21.tif  
source=69752\_Assign\_US#page22.tif  
source=69752\_Assign\_US#page23.tif  
source=69752\_Assign\_US#page24.tif  
source=69752\_Assign\_US#page25.tif  
source=69752\_Assign\_US#page26.tif  
source=69752\_Assign\_US#page27.tif  
source=69752\_Assign\_US#page28.tif  
source=69752\_Assign\_US#page29.tif  
source=69752\_Assign\_US#page30.tif  
source=69752\_Assign\_US#page31.tif  
source=69752\_Assign\_US#page32.tif  
source=69752\_Assign\_US#page33.tif  
source=69752\_Assign\_US#page34.tif  
source=69752\_Assign\_US#page35.tif  
source=69752\_Assign\_US#page36.tif  
source=69752\_Assign\_US#page37.tif  
source=69752\_Assign\_US#page38.tif  
source=69752\_Assign\_US#page39.tif  
source=69752\_Assign\_US#page40.tif  
source=69752\_Assign\_US#page41.tif  
source=69752\_Assign\_US#page42.tif  
source=69752\_Assign\_US#page43.tif  
source=69752\_Assign\_US#page44.tif

### ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof, and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.


I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

### ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.


I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX



SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

### ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

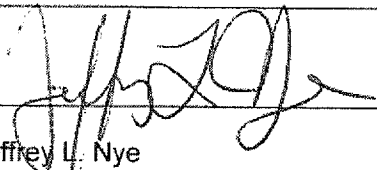
I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

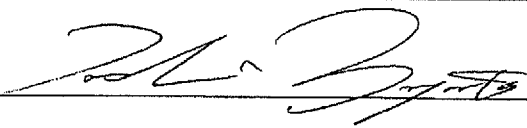
IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX



SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

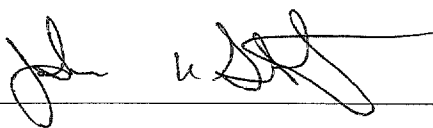
TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

### ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX


SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX



SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

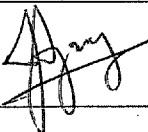
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

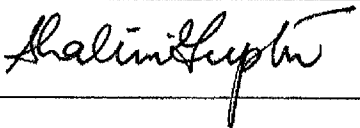
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX



SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

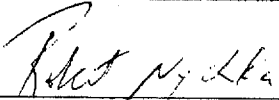
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

## ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX



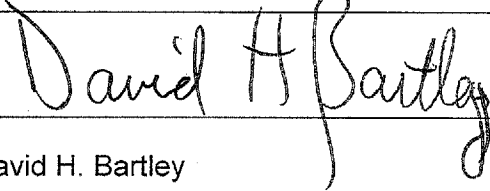
SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243

### ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made.

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 12500 TI Boulevard, M/S 3999, Dallas, Texas 75243, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon, as well as to U.S. Provisional Application No(s). 61/415,210, filed 11/18/2010; and 61/415,205, filed 11/18/2010.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign unto the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in and to the said application(s) and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Patent and Trademark Office to issue all patents for said invention, or patents resulting therefrom, to the said TEXAS INSTRUMENTS INCORPORATED, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my corresponding rights to the invention disclosed in said application in all other countries of the world, including the right to claim priority, file applications and obtain patents under the terms of the Paris Convention for the Protection of Industrial Property, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention, and at the expense of said assignee company, testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said TEXAS INSTRUMENTS INCORPORATED, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

I authorize the later insertion of the nonprovisional application number and filing date hereinbelow.

IN WITNESS WHEREOF, I hereunto set hand and seal this day and year;

TITLE	HIGH-PERFORMANCE, SCALABLE MULTICORE HARDWARE AND SOFTWARE SYSTEM		
NONPROVISIONAL APPLICATION NO.	13/232,774	FILING DATE	9/14/2011

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	William M. Johnson
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Murali S. Chinnakonda
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Jeffrey L. Nye
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Austin, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Toshio Nagata
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	John W. Glotzbach
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX


SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Hamid R. Sheikh
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Allen, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ajay Jayaraj
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Sugarland, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Shalini Gupta
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	San Francisco, CA

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Robert J.P. Nychka
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Canton, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	David H. Bartley
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Dallas, TX

SIGNATURE OF INVENTOR	
PRINTED NAME OF INVENTOR	Ganesh Sundararajan
DATE	Effective on or before 11/18/2011
RESIDENCE (CITY AND STATE)	Plano, TX

After recording, return Assignment to: Texas Instruments Incorporated  
12500 TI Boulevard (M/S 3999)  
Dallas, Texas 75243