

06-04-2002

FORM PTO-1595 (REV 1-93)

RE



HEET

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

OMB No. 0651-011 (exp.4/94)

102109921

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

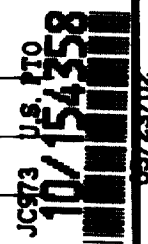
1. Name of conveying party(ies):  
 Sameer Sonkusale  
 Jan Van der Spiegel  
 Krishnasawamy Nagaraj

*05/23/02*

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

2. Name and address of receiving party(ies):  
 Name: Texas Instruments Incorporated  
 Internal Address: \_\_\_\_\_  
 Street Address: P.O. Box 655474, M/S 3999  
 City: Dallas  
 State/Country: Texas ZIP: 75265

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



3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_

Execution Date: 5/21/02

4. Application number(s) or patent number(s): 10/154358

If this document is being filed together with a new application, the execution date of the application is: 5/21/02

A. Patent Application No.(s) \_\_\_\_\_ B. Patent No.(s) \_\_\_\_\_

Additional Numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
 Name: W. Daniel Swayze, Jr.  
 Internal Address: \_\_\_\_\_  
Texas Instruments Incorporated  
 Street Address: P.O. Box 655474, M/S 3999  
 City: Dallas  
 State: Texas ZIP: 75265

6. Total number of applications and patents involved: [ 1 ]

7. Total fee (37 CFR 3.41) .....\$ 40.00

Enclosed  
 Authorized to be charged to deposit account

8. Deposit account number:  
20-0668  
 (Attach duplicate copy of this page if paying by deposit account)

06/01/2002 6TOM11 00000105 200668 10154358 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.*

Himanshu S. Amin [Signature] May 23, 2002  
 Name of Person Signing Signature Date

Reg. No. 40,894 Total number of pages including cover sheet attachments, and document: [ 5 ]

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 012939 FRAME: 0096

**ADDENDUM TO FORM PTO-1595**

Continuation of information of (Item 2)

Additional Name and Address of Receiving Parties'

The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA  
3160 Chestnut Street, Suite 200  
Philadelphia, Pennsylvania 19104-6283

**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, the said application having been executed on the date set forth below; and

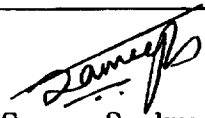
WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 75251; and The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, a non-profit corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having its principal place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104-6283, 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;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED and The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said TEXAS INSTRUMENTS INCORPORATED and The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, as assignee of my entire right, title and interest.

I also hereby sell and assign to TEXAS INSTRUMENTS INCORPORATED and The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said TEXAS INSTRUMENTS INCORPORATED and The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 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 and The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

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

TITLE OF INVENTION	<b>TRUE BACKGROUND CALIBRATION OF PIPELINED ANALOG-DIGITAL CONVERTERS</b>
SIGNATURE OF INVENTOR AND NAME	 Sameer Sonkusale
DATE	May 21, 2002
RESIDENCE (CITY AND STATE)	Secane, PA
DATE APPLICATION EXECUTED	May 21, 2002

**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, the said application having been executed on the date set forth below; and

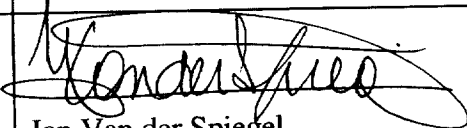
WHEREAS, The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, a non-profit corporation organized and existing under the laws of the Commonwealth of Pennsylvania, having its principal place of business at 3160 Chestnut Street, Suite 200, Philadelphia, Pennsylvania 19104-6283, is desirous of acquiring my entire right, title and interest in and to the said invention, and to the said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to the said The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, as assignee of my entire right, title and interest.

I also hereby sell and assign to The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, 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 The TRUSTEES OF THE UNIVERSITY OF PENNSYLVANIA, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

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

TITLE OF INVENTION	<b>TRUE BACKGROUND CALIBRATION OF PIPELINED ANALOG-DIGITAL CONVERTERS</b>
SIGNATURE OF INVENTOR AND NAME	 Jan Van der Spiegel
DATE	May 21, 2002
RESIDENCE (CITY AND STATE)	Philadelphia, PA
DATE APPLICATION EXECUTED	May 21, 2002

**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, the said application having been executed on the date set forth below; and

WHEREAS, TEXAS INSTRUMENTS INCORPORATED, a corporation organized and existing under the laws of the State of Delaware, with a place of business at 7839 Churchill Way, M/S 3999, Dallas, Texas 75251, 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;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to the said TEXAS INSTRUMENTS INCORPORATED, its successors and assigns, my entire right, title and interest in and to the said invention and in to the said application and all patents which may be granted therefor, and all divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, 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 foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent 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.

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

TITLE OF INVENTION	<b>TRUE BACKGROUND CALIBRATION OF PIPELINED ANALOG-DIGITAL CONVERTERS</b>
SIGNATURE OF INVENTOR AND NAME	<i>Krishnasawamy</i> Krishnasawamy Nagaraj
DATE	21 <sup>st</sup> May 2002
RESIDENCE (CITY AND STATE)	Hillsborough, NJ
DATE APPLICATION EXECUTED	<i>Krishnasawamy</i>