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U.S. DEPARTMENT OF COMMERCE  
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11/274965



11-15-05

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

1. Name of conveying party(ies):  
  
Sudheer K. Vemulapalli; John Wallberg;  
Prasant K. Vallur; Robert B. Staszewski  
  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: **Texas Instruments Incorporated**  
Street Address:  
**PO Box 655474**  
**Mail Station 3999**  
City: **Dallas** State: **TX** Zip: **75265-5474**  
Country:  
  
Additional name(s) and address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other  
  
Execution Date: November 11, 2005; November 11, 2005; November 11, 2005; November 11, 2005

4. Application number(s) or patent number(s):  
If this document is being filed together with a new application, the execution date of the application is: November 11, 2005  
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:  
  
Ronald O. Neerings  
Texas Instruments Incorporated  
PO Box 655474  
Mail Station 3999  
Dallas TX 75265-5474

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 (Atty Docket No. 12411.0051; TI-39311)

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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.*

Howard Zaretsky (Reg. No. 38.669)  
Name of Person Signing

Signature

November 15, 2005  
Date

Total number of pages including cover sheet, attachments and documents: 4

11/22/2005 ECDOPER 00000162 200668 11274965

01 FC:8021

40.00 DA

Attorney Docket No. 12411.0051; TI-39311

**ASSIGNMENT**

WHEREAS, WE,

<u>Inventor Name</u>	<u>Address</u>	<u>Nationality</u>
Sudheer K. Vemulapalli	1115 Bridgeway Lane, Allen TX 75013	India
John Wallberg	1609 Woodoak Dr, Richardson TX 75082	United States
Prasant K. Vallur	1201 Periwinkle Dr, Wylie TX 75098	India
Robert B. Staszewski	413 West Murifield Rd, Garland TX 75044	United States

hereinafter called 'Assignors', have made certain inventions in

**CIRCUIT FOR HIGH-RESOLUTION PHASE  
DETECTION IN A DIGITAL RF PROCESSOR**

described in an application for Letters Patent filed herewith by us, and

WHEREAS,

Texas Instruments Incorporated  
PO Box 655474  
Mail Station 3999  
Dallas TX 75265-5474

a Delaware corporation, hereinafter called 'Assignee', is desirous of securing an undivided One Hundred Percent (100%) of the entire right, title and interest in and to the said inventions, applications and Letters Patent, when granted, and in and to any divisions, continuations, continuations-in-part, improvements, reissues or extensions that may be granted on any of them;

NOW, THEREFORE, BE IT KNOWN that for and in consideration of the sum of One Dollar (\$1.00) to us in hand paid by the said Assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the Assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over unto the said Assignee, its successors and assigns, an undivided One Hundred Percent (100%) of the entire right, title and interest throughout the world in and to the said inventions, applications, Letters Patent, when granted, and in and to any divisions, continuations, continuations-in-part, improvements, reissues or extensions that may be made or granted on any of them;

TO HAVE AND TO HOLD the same to the full end of the term or terms for which said Letters Patent may be granted, as fully and completely as the same might be held by us had this sale and assignment not been made.

For the consideration aforesaid, we hereby covenant and agree to and with the said Assignee, its successors and assigns what whenever its counsel or representative, or the counsel or representative of its successors or assigns, shall advise of, or any other proceeding or action in connection with said

application or inventions, including interference proceedings, is lawful and desirable, or that a reissue or continuation, continuation-in-part or extension of said Letters Patent is lawful and desirable, we will sign all lawful papers and drawings, execute all divisional, continuation, reissue and substitute applications, take all rightful oaths and affidavits, testify in any legal proceedings, and do all acts necessary or required to be done for the reissue of continuation, continuation-in-part or extension of same, and will do all acts necessary or required to secure to the said Assignee, its successors and assigns, the title to and full benefit of all rights hereby assigned, without charge to said Assignee or its successors or assigns, but at its or their expense.

AND the Commissioner of Patents and Trademarks is requested to issue the said Letters Patent, when granted, in accordance with this sale and assignment.

For the consideration aforesaid, we have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto the said Assignee, its successors and assigns, or the nominees of any of them, an undivided One Hundred Percent (100%) of the entire right, title and interest in and to any and all Letters Patent for said inventions which may be granted in countries foreign to the United States, and in and to any applications for Letters Patent which may be filed for said inventions in countries foreign to the United States, and in and to the inventions described in said applications; and we hereby authorize and empower said Assignee and its successors, assigns or nominees, to apply for Letters Patent or other form of protection on said inventions in its own name or in the name of its successors, assigns or nominees, in any or all countries where it may desire to file such applications, and where said applications may be filed by other than the inventor; and we hereby covenant and agree to sign all papers and drawings, take all rightful oaths, execute all rightful affidavits, and do all acts necessary or required to be done for the procurement and maintenance of Letters Patent or other form of protection for said inventions in countries foreign to the United States, and for further investing or confirming the right and title thereto in the Assignee, its successor, assigns or nominees, but at its or their expense.

*Shen*

Sudheer K. Vemulapalli

Witnessed By: *[Signature]* Date: 11/11/2005

Witnessed By: *[Signature]* Date: 11/11/2005

*[Signature]*  
John Wallberg

Witnessed By: *[Signature]* Date: 11/11/2005

Witnessed By: *[Signature]* Date: 11/11/2005

V. Prashanth Kumar  
Prasant K. Vallur

Witnessed By: M. C. Fernandez Date: 11/11/2005

Witnessed By: [Signature] Date: 11/11/2005

[Signature]  
Robert B. Staszewski

Witnessed By: [Signature] Date: 11/11/05

Witnessed By: [Signature] Date: 11/11/05