

09-29-1999

9-27-99



1 COVER SHEET
ONLY

attached original documents or copy thereof: 27 000

To the Commissioner of Pa

101157624

1. Name of conveying party(ies):
Sudhakar Allada
Chris Foster

2. Name and address of receiving party(ies):

Name: NATIONAL SEMICONDUCTOR CORPORATION

Internal Address: M/S D3-579

Street Address: 2900 Semiconductor Drive

City, State and Zip: Santa Clara, CA 95051-8090

Additional name(s) of conveying party(ies) attached?

Yes No

Additional Name(s) & address(es) attached?

Yes No

3. Nature of Conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: May 19, 1999 & July 10, 1999

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:

A. Patent Application No.(s)
09/294,914

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Patricia Coleman James

Internal Address: Limbach & Limbach L.L.P.
Street Address: 2001 Ferry Building
City, State, ZIP: San Francisco, California 94111
Telephone: (415) 433-4150
Facsimile: (415) 433-8716

Attorney Docket No. NSC1-F5200 [P04263]

6. Total number of applications and patents involved: 1

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

- Enclosed
- Charge any deficiencies in the enclosed fee to Deposit Account No. 12-1420
- Authorized to be charged to deposit account

8. Deposit account number: 12-1420

(Attach duplicate copy of this page if paying by deposit account)

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.

Patricia Coleman James, Reg. No. 37,155
Name of Person Signing

Patricia Coleman James
Signature

9/24/99
Date

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

09/29/1999 MTHA11 00000033 09294914

01 FC:581

40.00 00

Do not detach this portion

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20213, and to the Office of Management and Budget, Paperwork Reduction Project, (0651-0011), Washington, D.C. 20503

ASSIGNMENT

WHEREAS, WE, Sudhakar Allada and Chris Foster, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHYLATED OXIDE-TYPE DIELECTRIC AS A REPLACEMENT FOR SiO₂ HARDMASKS USED IN POLYMERIC LOW K, DUAL DAMASCENE INTERCONNECT INTEGRATION

Application Execution Date: 4/13/99 & 4/15/99

Filing Date: April 19, 1999

Application No.: 09/294,914 ;

WHEREAS, NATIONAL SEMICONDUCTOR CORPORATION, a corporation of the State of Delaware, 2900 Semiconductor Drive, M/S D3-579, Santa Clara, California 95051-8090, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

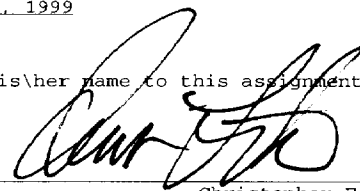
NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to Assignors by Assignee, receipt of which is hereby acknowledged, Assignors has sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

We hereby authorize and request our attorney, Patricia Coleman James, of Limbach & Limbach L.L.P., 2001 Ferry Building, San Francisco, California 94111-4262, to insert here in parentheses (application number 09/294,914 , filed April 19, 1999) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his\her name to this assignment on the dates indicated below.

Dated: 2/10/99



Christopher Foster

State of _____

County of _____

On _____ before me, _____,

personally appeared _____, personally known to me or 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.

WITNESS my hand and official seal.

Signature of Notary

SEAL

ASSIGNMENT

WHEREAS, WE, Sudhakar Allada and Chris Foster, hereinafter referred to as "ASSIGNORS", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: METHYLATED OXIDE-TYPE DIELECTRIC AS A REPLACEMENT FOR SIO, HARDMASKS USED IN POLYMERIC LOW K, DUAL DAMASCENE INTERCONNECT INTEGRATION

Application Execution Date: 4/13/99 & 4/15/99

Filing Date: April 19, 1999

Application No.: 09/294,914;

WHEREAS, NATIONAL SEMICONDUCTOR CORPORATION, a corporation of the State of Delaware, 2900 Semiconductor Drive, M/S D3-579, Santa Clara, California 95051-8090, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in the said invention and application and in any Letters Patent which may be granted on the same;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to Assignors by Assignee, receipt of which is hereby acknowledged, Assignors has sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee, and Assignee's successors and assigns, all right, title and interest in and to the said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, the said interest to be held and enjoyed by said Assignee as fully and exclusively as it would have been held and enjoyed by said Assignors had this assignment and transfer not been made, to the full end and term of any Letters Patent.

Assignors further agree that they will, without charge to said Assignee, but at Assignee's expense, cooperate with Assignee in the prosecution of said application and/or applications, execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof, and will perform such other acts as Assignee lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said Assignee, or Assignee's successors and assigns.

We hereby authorize and request our attorney, Patricia Coleman James, of Limbach & Limbach L.L.P., 2001 Ferry Building, San Francisco, California 94111-4262, to insert here in parentheses (application number 09/294,914, filed April 19, 1999) the filing date and application number of said application when known.

IN TESTIMONY WHEREOF, Assignor has hereunto signed his name to this assignment on the dates indicated below:

Dated: 05/19/99

Sudhakar Allada
Sudhakar Allada

State of California

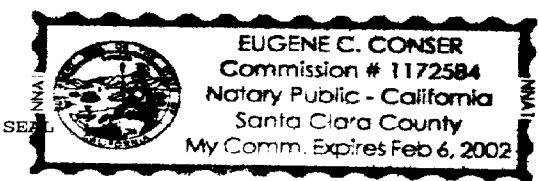
County of Santa Clara

On May 19/1999 before me, Eugene C. Conser (Notary), personally appeared Sudhakar Allada,

personally known to me or proved to me on the basis of satisfactory evidence to be the person or whose name is 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.

WITNESS my hand and official seal.

Eugene C. Conser
Signature of Notary



IN TESTIMONY WHEREOF, Assignor has hereunto signed his\her name to this assignment on the dates indicated below.

Dated: _____
Chris Foster

State of _____

County of _____

On _____ before me, _____,

personally appeared _____, personally known to me or 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.

WITNESS my hand and official seal.

Signature of Notary

SEAL