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01-06-2000

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101239756

To the Honorable Commissioner of Patents and Trademarks. Original documents or copy thereof. Unless filed with a new application, mail to: BOX ASSIGNMENT, Commissioner of Patents and Trademarks, Washington, D.C. 20231.

1. Name of conveying party(ies):  
F. Daniel Gealy, Dave Chapek, Scott DeBoer, Husam N. Al-Shareef and Randhir Thakur  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: MICRON TECHNOLOGY, INC.  
Address: 8000 South Federal Way, Mail Stop 525, Boise, ID 83707-0000  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other Record to correct Name of conveying party and document dates previously recorded 9469/0370  
Execution Date:

CERTIFICATE OF MAILING  
I hereby certify that this paper or fee along with any attachments referred to or identified as being attached or enclosed is being deposited with the United States Postal Service as First Class Mail (under 37 C.F.R. § 1.8(a)) on the date of deposit shown below with sufficient postage and in an envelope addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.  
December 6, 1999  
Date of Deposit  
Signature of authorized practitioner or other person having responsibility to deposit mailings to occur on date of deposit shown pursuant to 37 C.F.R. § 1.8(a)(1)(ii)  
Dustin Pfeil  
Typed/printed name of person whose signature is contained above

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. U.S. Patent Application No.(s)  
09/386,941  
Additional numbers attached?  Yes  No

B. U.S. Patent No.(s)

5. Name and address of party to whom correspondence concerning this document should be mailed:  
Name: James R. Duzan  
Trask, Britt & Rossa  
P.O. Box 2550  
Salt Lake City, UT 84110-2550  
Attorney Docket No. 3403US

6. Total number of U.S. applications and U.S. patents involved:   
7. Total fee (37 C.F.R. § 3.41) \$ 40.00 (\$40.00 times number in box 6)  
Check no. 12819 is enclosed in this amount.  
8. The Commissioner is hereby authorized to charge any deficiency or credit any overpayment to deposit account number 20-1469.

01/06/2000 00000007 09286941  
FC:581 40.00

DO NOT USE THIS SPACE

9. Statement and signature.  
To the best of my knowledge and belief, the foregoing information is true and correct.  
James R. Duzan  
Name of Person Signing  
Reg. No. 28,393  
Signature  
Date  
December 6, 1999  
Total number of pages including cover sheet, attachments and document: 10

PATENT  
REEL: 010466 FRAME: 0697

09-09-1999



HEET

101139003

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Unless filed with a new application, mail to: BOX ASSIGNMENT, Commissioner of Patents and Trademarks, Washington, D.C. 20231.

1. Name of conveying party(ies):  
Dan Gealy, Dave Chapek, Scott DeBoer, Husam N. Al-Shareef and Randhir Thakur  
*MRS 8.31.99*  
Additional name(s) of conveying party(ies) attached?  Yes  No

2. Name and address of receiving party(ies):  
Name: MICRON TECHNOLOGY, INC.  
Address: 8000 South Federal Way  
Boise, ID 83707-0006  
Additional name(s) & address(es) attached?  Yes  No

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name  
 Other \_\_\_\_\_  
Execution Date: 04/19/99, 04/22/99, 05/06/99 and 08/31/99

NOTICE OF EXPRESS MAILING  
Express Mail Mailing Label Number: EL312572820US  
Date of Deposit with USPS: August 31, 1999  
Person making Deposit: Jared Turner

4. Application number(s) or patent number(s): *09, 386941*  
If this document is being filed together with a new application, the execution date of the application is: 04/19/99, 04/22/99, 05/06/99 and 08/31/99  
A. U.S. Patent Application No.(s)  
B. U.S. Patent No.(s)  
Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning this document should be mailed:  
Name: James R. Duzan  
Trask, Britt & Rossa  
P.O. Box 2550  
Salt Lake City, UT 84110-2550  
Attorney Docket No. 3403US (97-758)

6. Total number of U.S. applications and U.S. patents involved:   
7. Total fee (37 C.F.R. § 3.41) . . . . . \$ 40.00  
(\$40.00 times number in box 6)  
Check no. 12290 is enclosed in this amount.  
8. The Commissioner is hereby authorized to charge any deficiency or credit any overpayment to deposit account number 20-1469.

09/08/1999 INQUIRY 00000418 09386941 DO NOT USE THIS SPACE  
FC:581 40.00 IP

9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct.*  
James R. Duzan *James R. Duzan* *August 31, 1999*  
Name of Person Signing Signature Date  
Reg. No. 28,393  
Total number of pages including cover sheet, attachments and document:

PATENT  
REEL: 010466 FRAME: 0598

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:

SELL, ASSIGN AND TRANSFER to ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at MICRON TECHNOLOGY, INC., 8000 South Federal Way, Boise, Idaho, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith and is entitled METHOD AND APPARATUS FOR STABILIZING HIGH PRESSURE OXIDATION OF A SEMICONDUCTOR DEVICE, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;

AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance affecting the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to

**PATENT****REEL: 010466 FRAME: 0599**

secure, maintain, defend and enforce valid and enforceable patent protection for such improvements:

AGREE and ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNORS:

Daniel F. Gealy  
F Daniel F. Gealy  
Residing at: 2400 Junayo Lane, Kuna, ID 83634

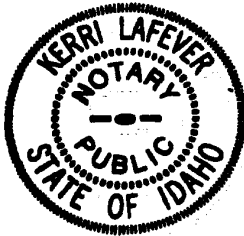
Date 4/15/99

Scott DeBoer  
Scott DeBoer  
Residing at: 259 East Twin Willow, Boise, ID 83706

Date 4/19/99

STATE OF Idaho  
: ss.  
COUNTY OF Ada

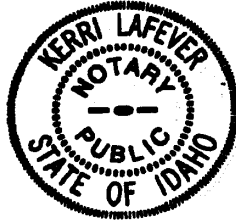
BEFORE ME, the undersigned authority, on this 19 day of April, 1999, personally appeared Daniel F. Gealy, personally known or proven by satisfactory documentary evidence to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



Kerri Lavever  
Notary or Consular Officer

STATE OF Idaho  
COUNTY OF Ada : ss.

BEFORE ME, the undersigned authority, on this 11 day of April, 1999, personally appeared Scott DeBoer, personally known or proven by satisfactory documentary evidence to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



Kerri Lavever  
Notary or Consular Officer

**ASSIGNMENT**

**FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:**

**SELL, ASSIGN AND TRANSFER to ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at MICRON TECHNOLOGY, INC., 8000 South Federal Way, Boise, Idaho, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith and is entitled METHOD AND APPARATUS FOR STABILIZING HIGH PRESSURE OXIDATION OF A SEMICONDUCTOR DEVICE, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;**

**AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;**

**AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to and in the name of the ASSIGNEE;**

**WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement or encumbrance affecting the rights and property herein conveyed has been or will be made or entered into by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;**

**COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to**

secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

AGREE and ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNORS:

*Dave Chapek*

Date 5/6/99

Dave Chapek  
Residing at: 62 Wilson Hill Road, Merrimack, NH 03054

STATE OF New Hampshire  
: ss.  
COUNTY OF Hillsborough

BEFORE ME, the undersigned authority, on this 6<sup>th</sup> day of May, 1999, personally appeared Dave Chapek, personally known or proven by satisfactory documentary evidence to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

*Dacia M. Gautier*  
Notary or Consular Officer

DACIA M. GAUTIER, Notary Public  
My Commission Expires August 24, 1999

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**ASSIGNMENT**

**FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, each undersigned ASSIGNOR does hereby:**

**SELL, ASSIGN AND TRANSFER to ("ASSIGNEE"), a corporation of the State of Delaware having a place of business at 8000 South Federal Way, Boise, Idaho 83706-9632, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith and is entitled DOUBLE LAYER ELECTRODE AND BARRIER SYSTEM ON HEMISPHERICAL GRAIN SILICON FOR USE WITH HIGH DIELECTRIC CONSTANT MATERIALS AND METHODS FOR FABRICATING THE SAME, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;**

**AUTHORIZE the ASSIGNEE to apply for and receive any and all United States and foreign patents relating to such improvements in its own name;**

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**COVENANT, when requested and at the expense of the ASSIGNEE, to carry out in good faith the intent and purpose of this assignment, to execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications relating to any and all such improvements; to execute all rightful oaths, declarations, assignments, powers of attorney and other papers; to communicate to the ASSIGNEE all facts and provide to the ASSIGNEE all documents and things known and accessible to the undersigned relating to such improvements and the history thereof, and testify as to the same in any interference, litigation or other proceeding relating thereto; and generally to do everything possible which the ASSIGNEE shall consider desirable for vesting title to such improvements in the ASSIGNEE, and to**



secure, maintain, defend and enforce valid and enforceable patent protection for such improvements;

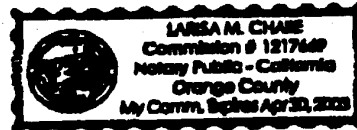
AGREE and ACKNOWLEDGE that the SALE, ASSIGNMENT AND TRANSFER of rights and property set forth herein is and shall be IRREVOCABLE and BINDING upon the heirs, assigns, representatives and successors of each undersigned ASSIGNOR and EXTEND to the successors, assigns and nominees of the ASSIGNEE.

ASSIGNORS:

Husam N. Al-Shareef  
Husam N. Al-Shareef  
Residing at: 314 Robinson Drive, Tustin, CA 92782

Date 8-31-99

STATE OF CALIFORNIA  
COUNTY OF ORANGE



BEFORE ME, the undersigned authority, on this 31st day of AUGUST, 1999, personally appeared Husam N. Al-Shareef, personally known or proven by satisfactory documentary evidence to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Larisa M. Chase  
Notary or Consular Officer

**ASSIGNMENT**

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**SELL, ASSIGN AND TRANSFER to ("ASSIGNEE"), a corporation of the state of Delaware having a place of business at MICRON TECHNOLOGY, INC., 8000 South Federal Way, Boise, Idaho, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the Application for United States Letters Patent, which has been executed by each undersigned ASSIGNOR concurrently herewith and is entitled METHOD AND APPARATUS FOR STABILIZING HIGH PRESSURE OXIDATION OF A SEMICONDUCTOR DEVICE, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent or the legal equivalent thereof which have been or may be filed in the United States and all foreign countries relating to any of such improvements; all original, reexamined and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application made in the United States;**

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ASSIGNORS:

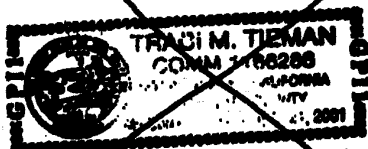
Randhir Thakur

Date April 22, 1999

Randhir Thakur  
Residing at: 4425 Fortran Drive, San Jose, CA 95134

STATE OF California  
COUNTY OF Santa Clara : ss.

BEFORE ME, the undersigned authority, on this 22<sup>ND</sup> day of April, 1999, personally appeared Randhir Thakur, personally known or proven by satisfactory documentary evidence to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



Traci M. Tieman 4-22-99  
Notary or Consular Officer

S

