FORM PTO-1595

04-14-1998

U.S. Department of Commerce

| (Rev. 6-93) OMB No. 0651-0013 | 1 (exp. 4/94) | | | Patent | t And Trademark Office |
|--|---|---------------------|--|------------------------|-----------------------------------|
| To the Honoral | ble Commissioner of Pate. | 10068 | 5781 | d original docume | nt or copy thereof. |
| 1. Name of conveyin | g party(ies): | | 2. Name and address | s of receiving party(i | es): |
| Patrick J. N | Cutter, Kurt D. Beigel, Adr Mullarkey, Dien Luong, nham, Kim Pierce | _ | Name: MICRON Internal Address: | N TECHNOLOGY, | INC. |
| Additional name(s) o Yes _X_ No | tham, Kim Pierce f conveying party(ies) attach | ed? _97 | | 0000 S. Federal Way | |
| 3. Nature of conveya | | | City: Boise | State: Idaho | Zip: 83707-0006 |
| X Assignment | Merger | | Additional name(s) | & address(es) attache | ed? Yes <u>X</u> No |
| Security Agree | ment Change or | f Name | | | |
| Other | | | | | |
| | ober 25, 1996, October 28, 8, 1996, November 11, 199 | | | | |
| 4. Application number | er(s) or registration number(s |): | | | |
| If this document is | being filed together with a n | ew application, the | e execution date of the | e application is: | |
| A. Patent Applicat | ion No.(s): 08/795,531 | | | | |
| B. Patent No.(s) | Addi | tional numbers att | ached? Yes <u>X</u> No |) | |
| | of party to whom correspondent should be mailed: | dence | | applications and pater | |
| Name: | Michael G. Fletcher | | | it Account No. 13-30 | \$ <u>40.00</u> 092; Order No. |
| Internal Address: | FLETCHER, YODER & P.O. Box 692289 Houston, Texas 77269-22 | | Enclosed Authorized to | o be charged to depos | sit account |
| Street Address: | 7915 FM 1960 West, Ste 3 Houston, Texas 77070 | 330 | 8. Deposit account r (Attach duplicate co | | ying by deposit account) |
| | | DO NOT USE | THIS SPACE | 46 | 6 |
| 9. Statement and sign To the best of my k original document. | nowledge and belief, the fore | egoing information | is true and correct ar | nd any attached copy | is a true copy of the |
| Michael G. Fletcher | | | 40th | | March 30, 1998 |
| Name of Pe | rson Signing | Total numbe | Signature r of pages including c | over sheet, attachme | Date nts and document: 16 |

ASSIGNMENT

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

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 S. Federal Way, Boise, Idaho 83707-0006, 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 the undersigned concurrently herewith and is entitled "METHOD AND APPARATUS FOR REDUCING ANTIFUSE PROGRAMMING TIME," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original 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 in the United States;

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

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others 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, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

| (Signature): | Date: |
|---|---|
| Name: Douglas J. Cutter | |
| STATE OF § | |
| COUNTY OF § | |
| BEFORE ME, the undersigned authority, on thisappeared Douglas J. Cutter known to me to be the pers acknowledged to me that he executed the same of his own free | day of, 1996, personally con whose name subscribed to the foregoing instrument and will for the purposes and consideration therein expressed. |
| | Notary or Consular Officer |
| [SEAL] | |
| | |
| (Signature): Name Kurt D. Beigel | Date: <u>OCT 28 1996</u> |
| STATE OF S S SS. COUNTY OF S SS. | |
| BEFORE ME, the undersigned authority, on this | name subscribed to the foregoing instrument and acknowledged |
| ALKEN ALKEN ALKEN AND AND AND AND AND AND AND AND AND AN | - Tand Why |
| SEAL PUBLIC OF ARY | Notary or Consular Officer |
| TATE OF THE OF | |

| (Signature): | | Date: |
|--|---|--|
| (Signature):Name: Adrian E. Ong | , | |
| STATE OF | § | |
| COUNTY OF | § ss. § | |
| BEFORE ME, the undersigned appeared Adrian E. Ong known to me to to me that he executed the same of his own | be the person whose nan free will for the purpo | day of, 1996, personall me subscribed to the foregoing instrument and acknowledge ses and consideration therein expressed. |
| | - | Notary or Consular Officer |
| [SEAL] | | |
| | | |
| (Signature):Name: Fan Ho | | Date: |
| Name. Fan Hu | | |
| STATE OF | § § ss. | |
| COUNTY OF | § | |
| BEFORE ME, the undersigned a appeared Fan Ho known to me to be the that he executed the same of his own free was a same of his ow | person whose name sub | day of, 1996, personally scribed to the foregoing instrument and acknowledged to mel consideration therein expressed. |
| | - | Notary or Consular Officer |
| [SEAL] | | |

| (Signature): Name: Patrick J. Mullarkey | Date: 28 Oct 1996 |
|---|--|
| STATE OF ACCOUNTY OF ACCOUNTY OF ACCOUNTY OF | SS. |
| appeared Patrick J. Mullarkey known to me to b | this 25th day of 1996, personally the person whose name subscribed to the foregoing instrument and own free will for the purposes and consideration therein expressed. |
| [SEAL] | Notary or Consular Officer |
| (Signature): Name: Dien Luong | Date: 10-29-96 |
| STATE OF AGA \$ | SS. |
| BEFORE ME, the undersigned authority, on appeared Dien Luong known to me to be the person we that he executed the same of his own free will for the same of the control of the same of t | whose name subscribed to the foregoing instrument and acknowledged to |
| [SEAL NOTAR) | Notary of Consular Officer |

| (Signature): | 13rd 11 | 111 | | Date: 10/x | 194 |
|----------------|--|---------------------|-----------------------|-----------------------------------|--|
| (| Name: Brett Debenha | m | | | |
| STATE OF | Idano Ada | | | | |
| appeared Bret | ORE ME, the undersigned at Debenham known to to me that he executed the | me to be the pers | on whose name subs | scribed to the foregoing | ing instrument and |
| [SEAL] | HOTAAL PUBLIC | | Ville Kr | Iontov Iotady or Consular Offi | cer |
| (Signature): _ | Name: Kim Pierce | · | | Date: <u>/C 25</u> | <u>-96</u> |
| STATE OF | Idano -Ada | \$ \$ ss. \$ | | | |
| appeared Kim | ORE ME, the undersigned Pierce known to me to be cuted the same of his own f | the person whose na | ame subscribed to the | foregoing instrument a | _, 1996, personally nd acknowledged to |
| [SEAL] | AUBLIO | Sole/Joint Congre | N N | Otary or Consular Office | cer |
| | | SOIC/JOHH, COHCUI | rem with Application | | |

5 PATENT

REEL: 9144 FRAME: 0227

ASSIGNMENT

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

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 S. Federal Way, Boise, Idaho 83707-0006, 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 the undersigned concurrently herewith and is entitled "METHOD AND APPARATUS FOR REDUCING ANTIFUSE PROGRAMMING TIME," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original 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 in the United States;

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

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others 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, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

PATENT REEL: 9144 FRAME: 0228

| (Signature): | | Date: | |
|--|---|--|--------|
| (Signature): Name: Douglas J. C | Cutter | | |
| STATE OF | § | | |
| STATE OF | § SS. § | | |
| appeared Douglas J. Cutter known | to me to be the person whose | day of, 1996, personance subscribed to the foregoing instrument purposes and consideration therein expressed | it and |
| | | Notary or Consular Officer | |
| [SEAL] | | | |
| | | | |
| (Signature):Name: Kurt D. Beig | | Date: | |
| Name: Kurt D. Beig | gel | | |
| STATE OF | | | |
| BEFORE ME, the undersigne appeared Kurt D. Beigel known to | d authority, on thisd me to be the person whose | lay of | t and |
| acknowledged to the that he executed the | te same of his own free will for the | ie purposes and consideration dierem expressed. | • |
| | | Notary or Consular Officer | |
| [SEAL] | | | |

| (Signature): | Date: |
|--|--|
| Name: Adrian E. Ong | |
| STATE OF CALIFORNIA \$ ss. COUNTY OF SANTA CLARA \$ | |
| BEFORE ME, the undersigned authority, on this | e name subscribed to the foregoing instrument as |
| SANTA CRUZ COUNTY My Comm. Expires DEC 30, 19% | R & Standsof Notary or Consular Officer |
| [SEAL] | |
| | |
| | |
| (Signature):Name: Fan Ho | Date: |
| Name: Fan Ho | Date: |
| (Signature): | Date: |
| Name: Fan Ho STATE OF | _day of, 1996, personal ed to the foregoing instrument and acknowledged to n |

| (Signature): | | | Date: | |
|----------------|------------------------------|-------------------------|--|---------------------|
| | Name: Patrick J. Mullar | key | | |
| STATE OF | | § | | |
| COUNTY OF | | § ss. § | | |
| appeared Patr | rick J. Mullarkey known to | me to be the person who | day ofse name subscribed to the foregothe purposes and consideration the | oing instrument and |
| | | | Notary or Consular Of | ficer |
| [SEAL] | | | | |
| | | | | |
| | | | | |
| (Signature): _ | | | Date: | |
| | Name: Dien Luong | | | |
| STATE OF | | | | |
| BEFC | ORE ME, the undersigned auth | nority, on this | day of | , 1996, personally |
| | | | d consideration therein expressed | |
| | | | Notary or Consular Of | ficer |
| [SEAL] | | | | |

| (Signature): | Brett Debenham | Date: | |
|-------------------------|---|---------------------------------------|------------------------|
| Name: | Brett Debenham | | |
| STATE OF | \$ \$ ss. \$ | | |
| appeared Brett Debenh | the undersigned authority, on this nam known to me to be the person he executed the same of his own free w | whose name subscribed to the for | egoing instrument and |
| | | Notary or Consular | Officer |
| [SEAL] | | | |
| | | | |
| (Signature): | W. Di | Date: | |
| Name: | Kim Pierce | | |
| STATE OF | § \$ \$ss. | | |
| | | | |
| appeared Kim Pierce kno | he undersigned authority, on this own to me to be the person whose name ame of his own free will for the purpos | subscribed to the foregoing instrumen | nt and acknowledged to |
| | | Notary or Consular | Officer |
| [SEAL] | | | |

Sole/Joint, Concurrent with Application

ASSIGNMENT

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

SELL, ASSIGN AND TRANSFER to Micron Technology, Inc. (the "Assignee"), a corporation of the State of Delaware, having a place of business at 8000 S. Federal Way, Boise, Idaho 83707-0006, 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 the undersigned concurrently herewith and is entitled "METHOD AND APPARATUS FOR REDUCING ANTIFUSE PROGRAMMING TIME," such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original 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 in the United States;

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

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others 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, the undersigned will (1) execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

PATENT REEL: 9144 FRAME: 0233

| (Signature): Name: Douglas J. Cutter |) Cutte | Date: 11/8/96 |
|---|--------------------------|--|
| STATE OF COLONIO | - | |
| BEFORE ME, the undersigned authority appeared Douglas J. Cutter known to me to acknowledged to me that he executed the same of | be the person whose name | |
| | Jan | Notary or Consular Officer |
| [SEAL] | eng sin inne | nand englings Mily 12, 1993 |
| | | |
| (Signature):Name: Kurt D. Beigel | | Date: |
| | | |
| COUNTY OF | . § ss § | |
| BEFORE ME, the undersigned authority appeared Kurt D. Beigel known to me to be acknowledged to me that he executed the same of | be the person whose name | subscribed to the foregoing instrument and |
| | | |
| | | Notary or Consular Officer |

[SEAL]

| (Signature): | | Date: |
|--|---|---|
| (Signature): Name: Adrian E. Ong | | |
| STATE OF | § | |
| COUNTY OF | § ss. § | |
| appeared Adrian E. Ong known to n | ne to be the person wh | day of, 1996, personal nose name subscribed to the foregoing instrument a for the purposes and consideration therein expressed. |
| | _ | Notary or Consular Officer |
| [SEAL] | | |
| | | |
| (Signature):Name: Fan Ho | | Date: |
| STATE OF | § | |
| COUNTY OF | § ss. | |
| BEFORE ME, the undersigned a appeared Fan Ho known to me to be the that he executed the same of his own free | nuthority, on this person whose name subscr will for the purposes and o | day of, 1996, personal ribed to the foregoing instrument and acknowledged to reconsideration therein expressed. |
| | _ | Notary or Consular Officer |
| [SEAL] | | |

PATENT

REEL: 9144 FRAME: 0235

| (Signature): | · · · · · · · · · · · · · · · · · · · | Date: |
|-----------------|--|--|
| | Name: Patrick J. Mullarkey | |
| STATE OF | § | |
| COUNTY OF _ | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | i. |
| appeared Patric | ck J. Mullarkey known to me to be the | isday of, 1996, personally ne person whose name subscribed to the foregoing instrument and n free will for the purposes and consideration therein expressed. |
| | | Notary or Consular Officer |
| [SEAL] | | |
| | | |
| (Signature): | Name: Dien Luong | Date: |
| | Name: Dien Luong | |
| STATE OF | | ı. |
| COUNTY OF _ | § ss | |
| appeared Dien | Luong known to me to be the person wh | isday of, 1996, personally nose name subscribed to the foregoing instrument and acknowledged the purposes and consideration therein expressed. |
| | | Notary or Consular Officer |

[SEAL]

| (Signature): Name: Brett Debenham | | Date: | | |
|---|--|---|---|--|
| Name: Brett Debenham | | | | |
| STATE OF | | | | |
| BEFORE ME, the undersigned authappeared Brett Debenham known to me acknowledged to me that he executed the same | to be the person whose nam | e subscribed to the foregoing | ng instrument and | |
| | | Notary or Consular Officer | | |
| [SEAL] | | | | |
| (Signature): Name: Kim Pierce | | Date: | | |
| STATE OF | | | | |
| BEFORE ME, the undersigned authorappeared Kim Pierce known to me to be the me that he executed the same of his own free | person whose name subscribed will for the purposes and considerations. | ofto the foregoing instrument and deration therein expressed. | , 1996, personally d acknowledged to | |
| | | Notary or Consular Officer | | |
| [SEAL] | | | | |

Sole/Joint, Concurrent with Application

5

. }