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TO THE ASSISTANT COMMISSIONER FOR

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documents or copy thereof.

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|---|---|
| 1. Name of conveying party(ies): (If multiple assignors, list numerically)<br><br>Micron Electronics, Inc.<br><br>Additional name(s) of conveying party(ies) attached?<br>( ) Yes    (X) No | 2. Name and address of receiving party(ies):<br><br>**Name**: MEI California, Inc.<br>**Internal Address**:<br>**Street Address**: 1545 Barber Lane<br>**City**: Milpitas **State**: CA **ZIP**: 95035<br><br>Additional name(s) of receiving party(ies) attached?<br>( ) Yes    (X) No |
| 3. Nature of conveyance:<br><br>(X) Assignment<br>( ) Merger<br>( ) Security Agreement<br>( ) Change of Name<br>( ) Other:<br><br>09048818<br><br>Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) | 4. Application number(s) or Patent number(s):<br><br>( ) Application(s) filed herewith Execution Date(s):<br><br>(X) Application No.: **See Attachment A (starting on page 2)**<br>    Filing Date:<br><br>(X) Patent No.: **See Attachment B (starting on page 6)**<br>    Issue Date:<br><br>Additional numbers attached?    (X) Yes    ( ) No |
| 5. Name and address of party to whom correspondence concerning document should be mailed:<br><br>**Name**:    Steven P. Arnold<br>    MICRON ELECTRONICS, INC.<br>**Internal Address**:<br>**Street Address**: 900 East Karcher Road<br>**City**: Nampa    **State**: ID    **ZIP**: 83687<br>**Attorney's Docket No.**: see attached | 7. Total fee (37 CFR 3.41):    $21,520<br><br>(X)    Enclosed<br>(X)    Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment<br><br>8.    Deposit account number: **500659**<br><br>Please charge this account for any additional fees which may be required, or credit any overpayment to this account. |

6. Total number of applications and patents involved: **538**

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.

Paul A. Revis    _____    3/23/01
Name of Person Signing    Signature    Date

Registration No. 45,040

Total number of pages including cover sheet, attachments and document: 23

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

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Recin. Ref: 04/11/2001 DBYRNE 00015005400
Name/Number:09048818
DA#:500659    $80.00 CR
FC: 704

04/11/2001 DBYRNE 00000136 09048818
01 FC:581    21520.00 OP

**PATENT**
**REEL: 011658 FRAME: 0956**

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| 6,122,758 | 9/19/00 | | 6,175,774 | 1/16/01 |
| 6,124,552 | 9/26/00 | | 6,176,001 | 1/25/01 |
| 6,125,336 | 9/26/00 | | 6,178,611 | 1/30/01 |
| 6,128,739 | 10/3/00 | | 6,178,624 | 1/30/01 |
| 6,131,172 | 10/10/00 | | 6,179,486 | 1/30/01 |
| 6,134,609 | 10/17/00 | | 6,182,180 | 1/30/01 |
| 6,134,614 | 10/17/00 | | 6,182,213 | 1/30/01 |
| 6,134,615 | 10/17/00 | | 6,182,232 | 1/30/01 |
| 6,134,668 | 10/17/00 | | 6,184,518 | 2/5/01 |
| 6,134,673 | 10/17/00 | | 6,185,645 | 2/6/01 |
| 6,135,291 | 10/24/00 | | 6,185,696 | 2/6/01 |
| 6,138,179 | 10/24/00 | | 6,186,800 | 2/13/01 |
| 6,138,194 | 10/20/00 | | 6,189,109 | 2/13/01 |
| 6,138,250 | 10/24/00 | | 6,192,478 | 2/20/01 |
| 6,138,542 | 10/31/00 | | 6,192,480 | 2/20/01 |
| 6,141,649 | 10/31/00 | | 6,195,084 | 2/27/01 |
| 6,144,942 | 11/7/00 | | 6,195,717 | 2/27/01 |
| 6,145,098 | 11/7/00 | | 6,198,625 | 3/6/01 |
| 6,145,368 | 11/14/00 | | 6,199,173 | 3/6/01 |

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|---|---|
| 6,200,386 | 3/13/01 |
| 6,201,688 | 3/13/01 |
| 6,202,083 | 3/13/01 |

| | |
|---|---|
| 6,202,111 | 3/13/01 |
| 6,202,160 | 3/13/01 |

ASSIGNMENT

WHEREAS, **Micron Electronics, Inc.**, a Minnesota corporation having offices at 900 East Karcher Road, Nampa, Idaho 83687 (hereinafter "ASSIGNOR"), represents and warrants that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which ASSIGNOR has filed the following United States issued Letters Patents and applications for Letters Patents in the United States (hereinafter "the Patents and Patent Applications"):

**Subject Patents - Appendix A**               **Subject Patent Applications - Appendix B**

WHEREAS, **MEI California, Inc.**, a California corporation having offices at 1545 Barber Lane, Milpitas, California 95035 (hereinafter "ASSIGNEE") desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patents and Patent Applications;

NOW, THEREFORE, in consideration of One Dollar ($1.00) to ASSIGNOR, and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patents and Patent Applications and all Patents that may be granted thereon, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patents and Patent Applications in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patents for said improvements and all Letters Patents resulting from the Patents and Patent Applications to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said issued Letters Patents;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patents and Patent Applications immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patents and Patent Applications, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patents and Patent Applications in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this _22nd_ day of
_March_, 200l.

MICRON ELECTRONICS, INC.

By: _____

Reviewed
MEI Legal

Name Printed: Steven P. Arnold

Title: Vice President, Legal, General Counsel

Date: _3/22/01_

STATE OF ⎫
         ⎬ ss.
COUNTY OF ⎭

On _March 22, 2001_, before me, _Vickie Darrow_, personally appeared
Steven P. Arnold of Micron Electronics, Inc. personally known to me (or proved to me on the basis of
satisfactory evidence) to be the person(s) whose name(s) is subscribed to the within instrument, and
acknowledged to me that he executed the same in his authorized capacity(ies), and that by his
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.

[SEAL]

_Vickie Darrow_
_____
Notary Signature

| No. | Docket Number | Inventor(s) | Patent Number | Issue Date | Title |
|---|---|---|---|---|---|
| 1 | 91.00233.01 | Canella, Stevenson, Charlton, Earnest | 5,528,603 | 6/18/96 | Apparatus And Method For Testing An Integrated Circuit Using A Voltage Reference Potential and A Reference Integrated Circuit |
| 2 | 92.00674.02 | Hank Gerdes | 5,781,447 | 7/14/98 | System For Recreating A Printed Circuit Board From Disjointly Formatted Data |
| 3 | 93.00289.00 | Canella, Farnsworth | 5,510,723 | 4/23/96 | Diced Semiconductor Device Handler |
| 4 | 93.00289.01 | Canella | 5,648,728 | 7/15/97 | Diced Semiconductor Device Handler |
| 5 | 93.00289.02 | Canella, Farnsworth | 6,089,107 | 7/18/00 | Process For testing A Semiconductor Device |
| 6 | 93.00454.00 | Chase Mart | 5,440,519 | 8/8/95 | Switched Memory Expansion Buffer |
| 7 | 93.00454.01 | Mart, Kledzik | 5,563,838 | 10/8/96 | Module Having Voltage Control Circuit To Reduce Surges In Potential |
| 8 | 93.00547.01 | Dean Klein | 5,657,482 | 8/12/97 | Automatic Clock Speed Sensing |
| 9 | 93.00549.00 | Dean Klein | 5,685,012 | 11/4/97 | System For Employing High Speed Data Transfer Between Host and Peripheral Via Host Interface Circuitry Utilizing An IORead Signal Driven By the Peripheral or the Host |
| 10 | 93.00549.01 | Dean Klein | 5,809,338 | 9/15/98 | System For Transferring A Plurality of Data Between A Peripheral and A Host Interface Utilizing Data Driving Circuitry Strobed By Host Interface or Peripheral |
| 11 | 94.00467.00 | Dean Klein | 5,721,673 | 2/24/98 | Socket For Retaining Multiple Electronic Packages |
| 12 | 94.00467.01 | Dean Klein | 5,883,790 | 3/16/99 | Socket For Retaining Multiple Electronic Packages |
| 13 | 95.00022.00 | Peterson, Farrel | 6,021,452 | 2/1/00 | Computer System Capable of Symmetrical Processing |
| 14 | 95.00022.01 | Peterson, Farrel | 6,044,452 | 3/28/00 | Method For Symmetrically Processing |
| 15 | 95.00369.00 | Dean Klein | 5,724,260 | 3/3/98 | Circuit For Monitoring The Usage of Components Within A Computer System |
| 16 | 95.00369.01 | Dean Klein | 6,076,050 | 6/13/00 | Circuit For Monitoring The Usage of Components With A Computer System |
| 17 | 95.00370.00 | Dean Klein | 5,748,957 | 5/5/98 | Computer System Usage Determination Based on Hard Drive Activity |
| 18 | 95.00370.01 | Dean Klein | 5,951,700 | 9/14/99 | Computer System Usage Determination Based on Hard Drive Activity |
| 19 | 95.00371.00 | Dean Klein | 5,644,472 | 7/1/97 | Variable Speed Controller |
| 20 | 95.00371.01 | Dean Klein | 6,061,236 | 5/9/00 | Computer Component Carrier That Directs Airflow to Critical Components |
| 21 | 95.00541.00 | Gregory Herrick | 5,483,250 | 1/9/96 | Projection Display System For A Laptop Computer or A Notebook Computer |
| 22 | 95.00552.00 | Dean Klein; Eric Anderson | 5,671,439 | 9/23/97 | Multi-Drive Virtual Mass Storage Device and Method of Operating Same |
| 23 | 95.00557.00 | Gregory Herrick | 5,204,497 | 4/20/93 | Computer Front Panel With Offset Airflow Louvers |
| 24 | 95.00558.00 | Thomas,Barry,Flom | 5,206,790 | 4/27/93 | Pivot and Swivel Mechanism For Laptop Display |
| 25 | 95.00559.00 | Dean Klein | 5,255,109 | 10/19/93 | Heat Dissipating LCD Display |
| 26 | 95.00560.01 | Gregory Herrick | 5,278,351 | 1/11/94 | Personal Computer Cabinet Cover With EMI Chips |
| 27 | 95.00683.00 | Ibarra | 5,738,323 | 4/14/98 | Positioner For Overhanging Components |
| 28 | 95.00683.01 | Ibarra | 5,904,331 | 5/18/99 | Positioner For Overhanging Components |
| 29 | 95.00684.00 | Canella | 5,937,270 | 8/10/99 | Method of Efficiently Laser Marking Singulated Semiconductor Devices |
| 30 | 95.00684.01 | Canella | 5,986,235 | 11/16/99 | Method of Efficiently Laser Marking Singulated Semiconductor Devices |
| 31 | 95.00934.00 | Rohwer | 6,009,536 | 12/28/99 | Method For Using Fuse Identification Codes For Masking Bad Bits On A Single In-Line Memory Module |

| 32 | 95.00934.01 | Rohwer | 5,913,020 | 6/15/99 | Method For Using Fuse Identification Codes For Masking Bad Bits On A Single In-Line Memory Modules |
|----|-------------|--------|-----------|---------|---|
| 33 | 95.01013.00 | Dean Klein | 5,905,901 | 5/18/99 | Method For Adaptive Power Management of A Computer System |
| 34 | 95.01013.01 | Dean Klein | 5,913,067 | 6/15/99 | Apparatus For Adaptive Power Management of A Computer System |
| 35 | 95.01014.00 | Dean Klein | 6,160,561 | 12/12/00 | Method And Apparatus For Displaying Data on Video Display |
| 36 | 95.01014.01 | Dean Klein | 6,104,373 | 8/15/00 | Apparatus For Displaying Data on A Video Display |
| 37 | 95.01015.00 | Dean Klein | 5,958,023 | 9/28/99 | Method For Low Power Wireless Keyboard That Detects A Host Computer Query For The State of A Key Then Powers Up To Determine and Transmit Back the State of That Key |
| 38 | 95.01015.01 | Dean Klein | 5,925,110 | 7/20/99 | Lower Power Keyboard With Power Supply Switch That is Activated by Receiver Output To Power Up And Down Keyboard Components Including Microcontroller Demodulator and Modulator |
| 39 | 95.01016.00 | Dean Klein | 5,958,065 | 9/28/99 | Content Addressable Bit Replacement Memory |
| 40 | 95.01016.01 | Dean Klein | 5,926,620 | 7/20/99 | Content Addressable Bit Replacement Memory |
| 41 | 95.01020.00 | Dean Klein | 6,065,069 | 5/16/00 | Circuit To Sense and Switch Between An Internal and External Pointing Device |
| 42 | 95.01021.00 | Dean Klein | 5,796,590 | 8/18/98 | Assembly Aid For Mounting Packaged Integrated Circuit Devices To Printed Circuit Boards |
| 43 | 95.01021.01 | Dean Klein | 5,930,889 | 8/3/99 | Method For Mounting Packaged Integrated Circuit Devices to Printed Circuit Boards |
| 44 | 95.01021.02 | Dean Klein | 6,084,781 | 7/4/00 | Assembly Aid For Mounting Packaged Integrated Circuit Devices to Printed Circuit Boards |
| 45 | 95.01133.00 | Jeff Leyda | 5,794,032 | 8/11/98 | System For the Identification and Configuration of Computer Hardware Peripherals |
| 46 | 95.01133.01 | Jeff Leyda | 5,867,730 | 2/2/99 | Method For Configuration of Peripherals by Interpreting Response From Peripherals To Enable Selection of Driver File and Latering Configuration Filed to Enable Loading of Selected Driver File |
| 47 | 95.01135.00 | Mike Noll | 5,793,943 | 8/11/98 | System For A Primary Bios Rom Recovery In A Dual Bios Rom Computer System |
| 48 | 95.01135.01 | Mike Noll | 5,835,695 | 11/10/98 | Method For A Primary Bios Rom Recovery In A Dual Bios Rom Computer System |
| 49 | 95.01135.02 | Mike Noll | 6,185,696 | 2/6/01 | System For A Primary Bios Rom Recovery In A Dual Bios Rom Computer System |
| 50 | 96.00030.00 | Rondeau, Magee | 5,661,677 | 8/26/97 | Circuit and Method For On-Board Programming of PRD Serial EEPROMS |
| 51 | 96.00030.01 | Rondeau, Magee | 5,859,792 | 1/12/99 | Circuit For On-Board Programming of PRD Serial EEPROMS |
| 52 | 96.00030.02 | Rondeau, Magee | 5,963,463 | 10/5/99 | Method For On-Board Programming of PRD Serial EEPROMS |
| 53 | 96.00138.00 | Dean Klein | 5,938,764 | 8/17/99 | Apparatus For Improved Storage of Computer System Configuration Information |
| 54 | 96.00225.00 | Nasman | 5,666,106 | 9/9/97 | Accessway with Grounding Sensor |
| 55 | 96.00415.00 | Eric Anderson | 6,003,130 | 12/14/99 | Apparatus For Selecting, Detecting and/or Reprogramming System Bios In A Computer System |
| 56 | 96.00415.01 | Eric Anderson | 6,161,177 | 12/12/00 | Method For Selecting, Detecting and/or Reprogramming System Bios in a Computer System |
| 57 | 96.00446.00 | Dean Klein | 5,941,989 | 8/24/99 | Apparatus For Indicating Power-Consumption Status In A Computer System |
| 58 | 96.00446.01 | Dean Klein | 5,996,079 | 11/30/99 | Method For Indicating Power-Consumption Status In A Computer System |
| 59 | 96.00447.00 | Dean Klein | 5,935,258 | 8/10/99 | Apparatus For Allowing Data Transfers With A Memory Having Defective Storage Locations |
| 60 | 96.00447.01 | Dean Klein | 5,925,138 | 7/20/99 | Method For Allowing Data Transfers With A Memory Having Defective Storage Locations |

| 61 | 96.00450.00 | Dean Klein | 5,935,226 | 8/10/99 | Method and Apparatus For Issuing Transaction Requests to A Target Device In Accordance Wit the State of Connection Between the Portable Computer and the Target Device |
|----|-------------|------------|-----------|---------|---|
| 62 | 96.00450.01 | Dean Klein | 6,035,354 | 3/7/00 | Method For Issuing Transaction Requests To A Target Device In Accordance With the State of Connection Between A Portable Computer and the Target Device |
| 63 | 96.00586.00 | Boe | 5,731,525 | 3/24/98 | Extraction Force Tester |
| 64 | 96.00586.01 | Boe | 5,798,464 | 8/25/98 | Method Of Measuring Extraction Forces |
| 65 | 96.00586.02 | Boe | 6,014,901 | 1/18/00 | Extraction Force Tester |
| 66 | 96.00587.01 | Jon Frank, Jeff Leyda, Bob Magette | 5,954,827 | 9/21/99 | Method and System For Indicating Computer Status |
| 67 | 96.00587.02 | Jon Frank, Jeff Leyda, Bob Magette | 6,049,896 | 4/11/00 | Method and System For Indicating Computer Status |
| 68 | 96.00588.00 | Frank, Johnson | 5,877,956 | 3/2/99 | System For Burning in and Diagnostically Testing A Computer |
| 69 | 96.00588.02 | Frank, Johnson | 6,175,774 | 1/16/01 | Method For Burning In And Diagnostically Testing A Computer |
| 70 | 96.00589.00 | Johnson, Larsen, Boe | 5,813,246 | 9/29/98 | Chambered Forced Cooling System |
| 71 | 96.00589.01 | Johnson, Larsen, Boe | 5,860,291 | 1/19/99 | Chambered Forced Cooling Method |
| 72 | 96.00594.00 | Johnson | 5,683,159 | 11/4/97 | Hardware Mounting Rail |
| 73 | 96.00594.01 | Johnson | 5,806,949 | 9/15/98 | Hardware Mounting Rail |
| 74 | 96.00598.00 | Canella, Ibarra | 5,997,388 | 12/7/99 | Apparatus For Removing Laser Marks From Integrated Circuit Devices |
| 75 | 96.00598.01 | Canella, Ibarra | 5,938,508 | 8/17/99 | Method For Removing Laser Marks From Integrated Circuit Devices |
| 76 | 96.00601.00 | Eric Anderson, Mike Noll | 5,996,072 | 11/30/99 | Method For Preserving and Displaying Text On A PC Bios Boot |
| 77 | 96.00602.00 | Robinson, Villa | 5,836,575 | 11/17/98 | Wafer Manual Handpick Station |
| 78 | 96.00612.00 | Dean Klein | 6,011,541 | 1/4/00 | Dual Pointing Device |
| 79 | 96.00613.00 | Dean Klein | 6,014,141 | 1/11/00 | Method and Apparatus For Selectively Displaying A Parameter in a Separate Panel |
| 80 | 96.00616.00 | Larsen | 5,841,710 | 11/24/98 | Dynamic Address Remapping Decoder |
| 81 | 96.00616.01 | Larsen | 5,920,512 | 7/6/99 | Dynamic Address Remapping Decoder |
| 82 | 96.00618.00 | James Meyer | 6,061,822 | 5/9/00 | IDE Controller Data Integrity Circuit For Raid 1 System |
| 83 | 96.00618.01 | James Meyer | 5,953,352 | 9/14/99 | Method of Checking Data Integrity For A Raid 1 System |
| 84 | 96.00621.01 | Boe | 6,176,001 | 1/25/01 | Method For Mounting Computer Components |
| 85 | 96.00621.02 | Boe | 6,158,699 | 12/12/00 | Apparatus For Mounting Computer Components |
| 86 | 96.00626.00 | Eric Anderson | 5,974,546 | 10/26/99 | Apparatus and Method To Determine Cause of Failed Boot Sequence To Improve Likelihood of Successful Boot Attempt |
| 87 | 96.00633.00 | Barrus | 5,958,058 | 9/28/99 | User-Selectable Power Management Interface With Application Threshold Warnings |
| 88 | 96.00633.01 | Barrus | 6,192,480 | 2/20/01 | Method of Managing Power For A Computer System and Generating Application Threshold Warnings |
| 89 | 96.00642.01 | Joe Jeddeloh | 5,974,564 | 10/26/99 | Method For Remapping Defective Memory Bit Sets To Non-Defective Memory Bit Sets |
| 90 | 96.00645.00 | Boe | 5,960,522 | 10/5/99 | RibbonCable Alligator Clamp |
| 91 | 96.00645.01 | Boe | 5,937,745 | 8/17/99 | Method of Clamping A Ribbon Cable |
| 92 | 96.00648.00 | Ibarra | 5,895,019 | 4/20/99 | Positioner For Overhanging Components |
| 93 | 96.00649.00 | Canella | 6,112,940 | 9/5/00 | Vertical Storage Bin For Thin Package Devices |
| 94 | 96.00649.01 | Canella | 6,135,291 | 10/24/00 | Vertical Magazine Method For Integrated Circuit Device Dispensing, Receiving, Storing, Testing or Binning |
| 95 | 96.00651.00 | Dean Klein | 6,038,672 | 3/14/00 | A Portable Computer With Low Power CD-Player Mode |

| 96 | 96.00653.00 | Dean Klein | 5,987,551 | 11/16/99 | Attachment or Integration of A Bios Device Into A Computer System using A Local Bus |
| 97 | 96.00653.01 | Dean Klein | 6,003,103 | 12/14/99 | Method For Attachment or Integration of A Bios Device Into A Computer system Using A Local Bus |
| 98 | 96.00655.00 | Keith Paul | 5,991,875 | 11/23/99 | System Configuration Card |
| 99 | 96.00655.01 | Keith Paul | 5,954,808 | 9/21/99 | Method For Configuring A Computer-Based System With A Configuration Card |
| 100 | 96.01999.00 | Dean Klein | 6,076,118 | 6/13/00 | Attachment or Integration of A Bios Device Into A Computer System Using The System Memory Address and Data Bus |
| 101 | 96.01999.01 | Dean Klein | 5,961,643 | 10/5/99 | A Method For Attachment or Integration of a Bios Device Into A Computer System Using the System Memory Address and Data Bus |
| 102 | 96.02000.00 | Dean Klein | 6,009,522 | 12/28/99 | Attachment or Integration of A Bios Device Into A Computer System Using the Memory Data Bus |
| 103 | 96.02000.01 | Dean Klein | 6,182,213 | 1/30/01 | Method For Attachment or Integration of a bios Device Into A Computer System Using the System Memory Data Bus |
| 104 | 97.00001.01 | Parrish | 5,936,380 | 8/10/99 | Alternative Power For A Portable Computer Via Solar Cells |
| 105 | 97.00006.00 | Magette | 6,031,715 | 2/29/00 | Component Mounting Module For Printed Circuit Assemblies |
| 106 | 97.00006.01 | Magette | 6,178,624 | 1/30/01 | Method For Mounting A Component To A Printed Circuit Assembly |
| 107 | 97.00008.00 | Metivier | 5,893,450 | 4/13/99 | Roller Conveyor Cleaning Apparatus |
| 108 | 97.00008.01 | Metivier | 5,884,751 | 3/23/99 | A Method For Cleaning The Rollers of A Roller Conveyor |
| 109 | 97.00009.00 | Johnson, Schaff | 5,986,883 | 11/16/99 | Apparatus For Cooling Central Processing Units In Personal Computers |
| 110 | 97.00010.00 | Boe | 6,049,963 | 4/18/00 | Method For Mounting An Element |
| 111 | 97.00013.00 | Canella | 6,121,067 | 9/19/00 | Method For Additive De-Marking of Packaged Integrated Circuits and Resulting Packages |
| 112 | 97.00013.01 | Canella | 6,200,386 | 3/13/01 | Apparatus For Additive De-Marking of Packaged Integrated Circuits |
| 113 | 97.00015.00 | Charlton, Ochoa | 6,161,052 | 12/12/00 | A Method For Identifying A Component With Physical Characterization |
| 114 | 97.00023.00 | Dean Klein; Greg Stevenson | 6,064,303 | 5/16/00 | Personal Computer-Based Home Security System |
| 115 | 97.00023.01 | Dean Klein; Greg Stevenson | 6,107,918 | 8/22/00 | Method For Personal Computer-Based Home Surveillance |
| 116 | 97.00025.00 | Fleming | 6,031,894 | 2/29/00 | Method and Apparatus For Locating A Stolen Electronic Device Using Automatic Number Identification |
| 117 | 97.00026.00 | Fleming | 6,052,782 | 4/18/00 | Method For Locating A Stolen Electronic Device Using Electronic Mail |
| 118 | 97.00026.01 | Fleming | 6,128,739 | 10/3/00 | Apparatus For Locating A Stolen Electronic Device Using Electronic Mail |
| 119 | 97.00033.00 | Brunelle | 5,937,022 | 8/10/99 | Parts Counting Apparatus |
| 120 | 97.00033.01 | Brunelle | 5,933,470 | 8/3/99 | A Method For Counting Parts |
| 121 | 97.00034.00 | Ruckdashel | 6,038,542 | 3/14/00 | System For Notifying An Individual of a Previously Scheduled Event |
| 122 | 97.00034.01 | Ruckdashel | 6,144,942 | 11/7/00 | Method For Notifying An Individual of a Previously Scheduled Event |
| 123 | 97.00066.01 | Cowan | 6,098,182 | 8/1/00 | Apparatus For Monitoring Tests Run On A Personal Computer |
| 124 | 97.00068.00 | Hinrich, Doan, Cowan, McGill, Raburn, Johnson | 5,946,695 | 8/31/99 | A Method For Providing A User With Parameter-Specific Information |
| 125 | 97.00068.01 | Hinrich, Doan, Cowan, McGill, Raburn, Johnson | 6,026,431 | 2/14/00 | A System For Providing A User With Parameter-Specific Information |
| 126 | 97.00071.00 | Price, Travis | 6,119,994 | 9/19/00 | Device For Supporting A First Computer Component Relative To A Second Computer Component |

| 127 | 97.00071.01 | Price, Travis | 6,082,692 | 7/4/00 | Method For Supporting A First Computer Component Relative To A Second Computer Component |
|---|---|---|---|---|---|
| 128 | 97.00176.00 | Dean Klein; Hoyt Fleming | 6,163,326 | 12/19/00 | Input Device For A Laptop Computer |
| 129 | 97.00203.00 | Brunelle | 5,998,751 | 12/7/99 | Sorting System For Computer Chips |
| 130 | 97.00203.01 | Brunelle | 5,996,996 | 12/7/99 | Method of Sorting Computer Chips |
| 131 | 97.00283.00 | Ruckdashel | 6,018,800 | 1/25/00 | Security Mechanism For A Computer System |
| 132 | 97.00284.00 | Howell | 6,091,402 | 7/18/00 | A Foot Operated Input Device |
| 133 | 97.00285.00 | Dean Klein | 6,078,973 | 6/20/00 | Apparatus For Modem Interface In A Computer System |
| 134 | 97.00285.01 | Dean Klein | 6,134,609 | 10/17/00 | Method For Using Computer System Memory As A Modem Data Buffer |
| 135 | 97.00287.00 | Boe | 6,178,611 | 1/30/01 | Apparatus For Installing A Clip |
| 136 | 97.00288.00 | Dean Klein | 6,106,566 | 8/22/00 | Upgradeable Electronic Module and System using Same |
| 137 | 97.00288.01 | Dean Klein | 6,044,427 | 3/28/00 | Upgradeable Mobile Processor Module and Method for Implement |
| 138 | 97.00891.00 | Cronin, Schaff | 5,991,837 | 11/23/99 | Reverse Oriented Processor Configuration |
| 139 | 97.01016.00 | Boe | 6,052,892 | 4/25/00 | Adapter Tool For Mounting Components on Printed Circuit Boards |
| 140 | 97.01016.01 | Boe | 5,903,972 | 5/18/99 | Method of Mounting Components on Printed Circuit Boards |
| 141 | 97.01019.00 | Boe | 5,987,738 | 11/23/99 | Integrated Circuit Cartridge Extracting Method |
| 142 | 97.01019.01 | Boe | 6,018,867 | 2/1/00 | Integrated Circuit Cartridge Extracting Tool |
| 143 | 97.01053.00 | Boe | 6,116,120 | 9/12/00 | Adjustable tool For Applying Torque to A CPU Fan Unit |
| 144 | 97.01053.01 | Boe | 6,112,397 | 9/5/00 | Method of Applying Torque to A CPU Fan Unit |
| 145 | 97.01329.00 | Bull | 5,970,468 | 10/19/99 | Method and System For Communicating Between Users of A Productivity Tracking System |
| 146 | 97.01333.00 | Bull | 6,141,649 | 10/31/00 | Method and System For Tracking Employee Productivity Via Electronic Mail |
| 147 | 97.01379.00 | Price | 6,048,222 | 4/11/00 | Retentive Ribbon Cable Connector |
| 148 | 97.01379.01 | Price | 6,098,284 | 8/8/00 | Method of Retentively Attaching A Ribbon Cable Connector To A Device |
| 149 | 97.01383.00 | Boe | 6,023,827 | 2/15/00 | Cam Heat Sink Clip Installation and Removal Tool and Method |
| 150 | 97.01383.01 | Boe | 6,023,832 | 2/14/00 | Cam Heat Sink Clip Installation and Removal Tool and Method |
| 151 | 97.01473.00 | Boe | 5,987,706 | 11/23/99 | Device For Removably Coupling A Plurality of Structures |
| 152 | 97.01473.01 | Boe | 5,884,368 | 3/23/99 | Method For Removably Coupling A Plurality of Structures |
| 153 | 97.01607.00 | Sears | 6,098,101 | 8/1/00 | Method And Apparatus For Generating Shared Modem Usage Reports In A Networked Computer System |
| 154 | 97.01608.00 | Brunelle | 5,982,495 | 11/9/99 | Object Counting Method and Apparatus |
| 155 | 97.01610.00 | Robinson | 6,009,686 | 12/28/99 | De-Reeler For Tape Holding Parts |
| 156 | 97.01610.01 | Robinson | 5,937,497 | 8/17/99 | A Method For Removing Parts From Tape |
| 157 | 97.01658.00 | Frohardt | 6,089,167 | 7/18/00 | Electrostatic Discharge Safe Work Station |
| 158 | 97.01658.01 | Frohardt | 6,154,956 | 12/5/00 | Method of Assembling Components On An Electrostatic Discharge Safe Work Station |
| 159 | 97.01659.00 | Boe | 6,124,552 | 9/26/00 | Motherboard Screwless Mounting Spacer |
| 160 | 97.01660.00 | Paulson | 6,112,319 | 8/29/00 | Method and Apparatus For AGP Read Verification |
| 161 | 97.01695.00 | Pretz | 6,014,658 | 1/11/00 | Method and Apparatus For Managing Solutions to Problems |
| 162 | 97.01826.00 | Eric Anderson | 5,982,147 | 11/9/99 | System For Displaying A Status Condition of A Battery |
| 163 | 97.01826.01 | Eric Anderson | 6,078,871 | 6/20/00 | Method of Displaying A Status Condition of A Battery |
| 164 | 97.01906.01 | Boe | 6,035,529 | 3/14/00 | Header Pin Pre-Load Method |
| 165 | 97.01944.00 | Brunelle | 5,940,465 | 8/17/99 | Method For Counting Parts In A Tray |

| 166 | 97.01944.01 | Brunelle | 5,940,466 | 8/17/99 | Apparatus For Counting Parts in a Tray |
|---|---|---|---|---|---|
| 167 | 97.01985.00 | Sowards | 6,131,172 | 10/10/00 | Method For Classifying Electronic Components |
| 168 | 97.01985.01 | Sowards | 6,104,985 | 8/15/00 | Device for Classifying Electronic Components |
| 169 | 97.02153.00 | Foust | 5,988,717 | 11/23/99 | Method For Moving A Vacuum Lifter on and off an Object |
| 170 | 97.02257.00 | Brunelle | 6,026,553 | 2/22/00 | A Method For Stacking Receptacles |
| 171 | 97.02257.01 | Brunelle | 6,015,046 | 1/18/00 | A Stackable Receptacle |
| 172 | 97.02258.00 | Nouri, Johnson | 6,122,746 | 9/19/00 | System For Powering Up and Powering Down A Server |
| 173 | 97.02258.01 | Nouri, Johnson | 6,163,849 | 12/19/00 | Method of Powering Up and Powering Down A Server To A Maintenance State |
| 174 | 97.02260.01 | Howell | 6,012,683 | 1/11/00 | Apparatus For Managing Cables |
| 175 | 97.02320.00 | Fleming | 6,107,990 | 8/22/00 | Laptop With Buttons configured For Use With Multiple Pointing Devices |
| 176 | 97.02320.01 | Fleming | 5,982,358 | 11/9/99 | Method For Providing Buttons For Use With Multiple Pointing Devices |
| 177 | 97.02321.00 | Wilson, Mitch | 6,076,905 | 6/20/00 | Input Device Enclosure |
| 178 | 97.02325.01 | Zarek | 5,951,179 | 9/14/99 | Method of Operating a Computer Keyboard Assembly |
| 179 | 97.02353.00 | Henderson, Amdahl, Smith | 5,990,582 | 11/23/99 | Computer Fan Speed Control Device |
| 180 | 97.02353.01 | Henderson, Amdahl, Smith | 5,962,933 | 10/5/99 | Computer Fan Speed Control Method |
| 181 | 97.02379.00 | Murphy | 6,195,084 | 2/27/01 | Mouse Buttons Designed For Improved Availability |
| 182 | 97.02553.00 | Nouri, Johnson | 6,065,053 | 5/16/00 | System For Resetting A Server |
| 183 | 97.02554.00 | Nouri, Johnson | 6,138,250 | 10/24/00 | System For Reading System Log |
| 184 | 97.02554.01 | Nouri, Johnson | 6,073,255 | 6/6/00 | Method of Displaying Flight Recorder |
| 185 | 97.02555.01 | Chari | 6,068,661 | 5/30/00 | Method of Emulating Synchronous Communication |
| 186 | 97.02557.00 | Chari, Bright | 6,134,615 | 10/17/00 | Software System Facilitating The Replacement or Insertion of Devices In A Computer System Through the Use of A Graphical User Interface |
| 187 | 97.02557.01 | Chari | 6,134,614 | 10/17/00 | Method For facilitating The Replacement or Insertion of Devices In A Computer System Through The Use of A Graphical User Interface. |
| 188 | 97.02558.01 | Chari | 6,046,742 | 4/4/00 | Display of System Information |
| 189 | 97.02558.02 | Chari | 6,151,023 | 11/21/00 | Display of System Information |
| 190 | 97.02561.01 | Liu, Nguyen, Johnson | 6,170,067 | 1/2/01 | System For Automatically Reporting A System Failure In A Server |
| 191 | 97.02563.01 | Henderson, Amdahl, Smith, Agneta | 6,195,717 | 2/27/01 | Method of Expanding PCI Bus Loading Capacity |
| 192 | 97.02581.00 | DaSilva | 6,148,417 | 11/14/00 | A Method to Quickly Determine The Source of Data Corruption By Retrying Failure From A Different Source |
| 193 | 97.02601.00 | Overgaard | 6,138,542 | 10/31/00 | Apparatus For Handling and Manipulating Microelectronic Components |
| 194 | 97.02601.01 | Overgaard | 6,062,119 | 5/16/00 | Method For Handling and Manipulating Microelectronic Components |
| 195 | 97.02685.01 | Sheikh, Johnson | 6,189,109 | 2/13/01 | Method of Remote Access and Control of Environmental Conditions |
| 196 | 97.02686.00 | Sheikh, Johnson | 6,202,160 | 3/13/01 | System For Independent Powering of Diagnostic Processes on A Computer System |
| 197 | 97.02686.01 | Sheikh, Johnson | 6,134,668 | 10/17/00 | Method of Independent Powering of Diagnostic Processes On A Computer System |
| 198 | 97.02689.00 | Johnson, Wallach, Nguyen, Amdahl | 6,122,758 | 9/19/00 | System For Mapping Environmental Resources To Memory For Program Access |
| 199 | 97.02689.01 | Johnson, Wallach, Nguyen, Amdahl | 6,199,173 | 3/6/01 | Method For Mapping Environmental Resources To Memory For Program Access |

| 200 | 97.02690.02 | Wallach, Findlay, Pellicer | 6,202,111 | 3/13/01 | Method For the Hot Add of A Network Adapter On A System Including A Statically Loaded Adapter Drive |
|---|---|---|---|---|---|
| 201 | 97.02690.03 | Wallach, Findlay, Pellicer | 6,179,486 | 1/30/01 | Method For The Hot Add of A Mass Storage Adapter On A System Including A Dynamically Loaded Adapter Driver |
| 202 | 97.02691.01 | Wallach, Khalli, Mahalingam, Reed | 5,892,928 | 4/6/99 | Method For The Host Add of A Network Adapter on a System Including A Dynamically Loaded Adapter Driver |
| 203 | 97.02691.02 | Wallach, Khalli, Mahalingam, Reed | 5,889,965 | 3/30/99 | Method For the Hot Swap of A Network Adapter On A System Including A Dynamically Loaded Adapter Driver |
| 204 | 97.02691.04 | Wallach, Khalli, Mahalingam, Reed | 6,163,825 | 12/19/00 | Method For Hot Adding A Network Adapter By Identifying And Executing The Adapter Driver Based Upon The Logical Board Number of the Network Adapter |
| 205 | 97.02692.02 | Wallach, Khalli, Mahalingam, Reed | 6,170,028 | 1/2/01 | Method For Hot Swapping A Programmable Network Adapter By Using A programmable Processor To Selectively Disabling and Enabling Power Thereto Upon Receiving Respective Control Signals |
| 206 | 97.02692.03 | Wallach, Khalli, Mahalingam, Reed | 6,173,346 | 1/9/01 | Method For the Hot Sway of A Mass Storage Adapter on a System Including A Dynamically Loaded Adapter Driver |
| 207 | 97.02696.00 | Mahalingam | 6,148,355 | 11/11/00 | Configuration Management Method For Hot Adding and Hot Replacement Devices |
| 208 | 97.02697.00 | Liu, Nguyen, Johnson | 6,182,180 | 1/30/01 | Apparatus For Interfacing Buses |
| 209 | 97.02697.01 | Liu, Nguyen, Johnson | 5,987,554 | 11/16/99 | Method For Interfacing Buses |
| 210 | 97.02701.00 | Chari, Bright, Sartirana | 6,105,089 | 8/15/00 | Data Management System For Adding Or Exchanging Components On A Running Computer |
| 211 | 97.02701.01 | Chari, Bright, Sartirana | 6,058,445 | 5/2/00 | Data Management Method Supporting Hot Plug Operations On A Computer |
| 212 | 97.02703.00 | Nouri, Johnson | 6,145,098 | 11/7/00 | System of Displaying System Status |
| 213 | 97.02703.01 | Nouri, Johnson | 6,088,816 | 7/11/00 | Method of Displaying System Status |
| 214 | 97.02706.00 | Papa | 6,175,490 | 1/16/01 | Fault Tolerant Computer System |
| 215 | 97.02708.00 | Findlay, Chrbaszez | 6,163,853 | 12/19/00 | Method For Communicating A Software Generated Pulse Waveform Between Two Servers in A Network |
| 216 | 97.02710.00 | Chrabaszez | 6,134,673 | 10/17/00 | Method For Clustering Software Applications |
| 217 | 97.02712.00 | Chrabaszez, De Silva | 6,154,835 | 11/28/00 | Method For Automatically Configuring And Formatting A Computer System and Installing Software |
| 218 | 97.02712.01 | Chrabaszez, De Silva | 6,138,179 | 10/24/00 | System For Automatically Partitioning and Formatting A Primary Hard Disk Installing Software In Which Selection of Extended PartitionSize is Not Related to Size of Hard Disk |
| 219 | 97.02721.00 | Liu, Nguyen, Johnson | 6,035,420 | 3/7/00 | Method Of Performing An Extensive Diagnostic Test In Conjunction With A Bios Test Routine |
| 220 | 97.02721.01 | Liu, Nguyen, Johnson | 6,009,541 | 12/28/99 | Apparatus For Performing An Extensive Diagnostic Test In Conjunction With A Bios Test Routine |
| 221 | 97.02753.00 | Robinson | 6,119,541 | 9/19/00 | Method For Adjusting A Lead ScrewNut and A Nut For Adjustably Engaging A Lead Screw |
| 222 | 97.02828.00 | Dean Klein | 6,184,518 | 2/5/01 | Rotary Encoder with Multiple Calibration Points |
| 223 | 97.02828.01 | Dean Klein | 6,145,368 | 11/14/00 | Method For Calibrating Rotary Encoder With Multiple Calibration Points |
| 224 | 97.02913.00 | Dean Klein | 5,936,526 | 8/10/99 | Apparatus For Generating An Alarm In A Portable Computer System |
| 225 | 97.02913.01 | Dean Klein | 6,011,473 | 1/4/00 | Method For Generating An Alarm In A Portable Computer System |
| 226 | 97.02914.00 | Dean Klein; Mike Leman | 5,953,217 | 9/14/99 | Apparatus For Grounding A Printed Circuit Board |
| 227 | 97.02914.01 | Dean Klein; Mike Leman | 5,951,307 | 9/14/99 | Method For Grounding A Printed Circuit Board |
| 228 | 97.03232.00 | Brunelle | 6,058,055 | 5/2/00 | Multiple Pass Test System |
| 229 | 97.03232.01 | Brunelle | 5,991,215 | 11/23/99 | Method For Testing A memory Chip In Multiple Passes |

| 230 | 97.03233.00 | Brunelle | 6,089,637 | 7/18/00 | Device For Carrying A Stack of Trays |
|---|---|---|---|---|---|
| 231 | 97.03234.00 | Brunelle | 6,122,600 | 9/19/00 | Method For Device Qualification |
| 232 | 97.03234.01 | Brunelle | 6,125,336 | 9/26/00 | Apparatus For Device Qualification |
| 233 | 97.03258.00 | Murphy | 6,114,958 | 9/5/00 | System and Method For Indicating When A Stylus of A Computer is Missing |
| 234 | 97.03261.00 | Elledge | 6,044,399 | 3/28/00 | Inferring the Identity of A preferred Server From Configuration Information |
| 235 | 97.03264.00 | Elledge | 6,192,478 | 2/20/01 | Securing Restricted Operations Of A Computer Program Using A Visual Key Feature |
| 236 | 97.03269.00 | Dean Klein; Hoyt Fleming | 6,138,194 | 10/20/00 | Apparatus For Removing Power and Signals Form An Inadvertently Swapped Bus Card |
| 237 | 97.03269.01 | Dean Klein; Hoyt Fleming | 6,185,645 | 2/6/01 | Method For Removing Power From An Inadvertently Swapped PCI Card |
| 238 | 97.03270.00 | Fleming | 6,067,279 | 5/23/00 | Apparatus For Skipping And/or Playing Tracks on A CD or a DVD |
| 239 | 97.03270.01 | Fleming | 6,011,760 | 1/4/00 | Method For Skipping and/or Playing Tracks on A CD or A DVD |
| 240 | 97.03270.02 | Fleming | 6,157,597 | 12/5/00 | Apparatus For Skipping And/or Playing Tracks or A DVD |
| 241 | 97.03270.03 | Fleming | 6,175,537 | 1/16/01 | Method For Skipping and/or Playing Tracks on A CD or A DVD |
| 242 | 97.03312.00 | Murphy, Fleming | 6,099,051 | 8/8/00 | Closure System For Devices Having A Stylus |
| 243 | 97.03312.01 | Fleming, Murphy | 6,161,882 | 12/19/00 | Closure Method For Devices Having A Stylus |
| 244 | 97.03312.02 | Murphy | 6,024,390 | 2/15/00 | Closure System For Devices Having A Stylus |
| 245 | 97.03703.00 | Zarek | 6,147,673 | 11/14/00 | Computer Input Device and Keyboard |
| 246 | 97.03708.00 | Chrabaszcz | 6,101,529 | 8/8/00 | Apparatus For Updating Wallpaper For Computer Display |
| 247 | 97.03708.01 | Chrabaszcz | 6,202,083 | 3/13/01 | Method For Updating Wallpaper For Computer Display |
| 248 | 97.03709.00 | Chrabaszcz | 6,073,133 | 6/6/00 | Electronic Mail Attachment Verifier |
| 249 | 97.03721.00 | Dean Klein | 6,158,015 | 1/25/00 | Apparatus For Swapping, Adding or Removing A Processor In An Operating Computer System |
| 250 | 97.03721.01 | Dean Klein | 6,108,732 | 8/22/00 | Method For Swapping, Adding or Removing A Processor In An Operating Computer System |
| 251 | 97.04094.00 | Craig Boe | 6,045,386 | 4/4/00 | Circuit Board Retaining Device |
| 252 | 97.04181.00 | Craig Boe | 6,158,594 | 12/12/00 | Printed Circuit Board Mounting Bracket |
| 253 | 98.00875.00 | Mike Leman | 6,201,688 | 3/13/01 | Apparatus For Securing A Laptop Computer |
| 254 | 98.01168.00 | Greg Johnson | 6,040,980 | 3/21/00 | Disk Drive To Chassis Mounting Apparatus and Method |
| 255 | 98.01406.00 | Murphy | 6,068,307 | 5/30/00 | Closure System For Devices Having A Stylus |
| 256 | 98.01428.00 | Ochoa, Smith | 6,054,682 | 4/25/00 | Method and System For Reducing Water Vapor In Integrated Circuit Packages Prior to Reflow |
| 257 | 98.01688.01 | Dean Klein | 6,182,232 | 1/30/01 | Power Management Method |
| 258 | 98.02816.00 | Murphy | 6,095,845 | 8/1/00 | Tangle Resistant Cable Connector |
| 259 | 98.02860.00 | Dean Klein; Mike Leman | 6,186,800 | 2/13/01 | Circuit Board Grounding and Support Structure Apparatus and Method |
| 260 | 99.00631.00 | Leman | 6,046,912 | 4/4/00 | A Computer System Having Riser Board Expansion Capability |
| 261 | 99.00637.00 | Leman | 6,161,944 | 12/19/00 | Retractable Keyboard Illumination Device |
| 262 | 99.00649.00 | Leman | 6,198,625 | 3/6/01 | Hinge Assembly for A Portable Computer |

| No. | Docket Number | Serial Number | Filing Date |
|---|---|---|---|
| 1 | 93.00549.02 | 09/103,451 | 5/23/00 |
| 2 | 95.00410.00 | 08/565,090 | 11/30/95 |
| 3 | 95.00410.01 | 08/914,625 | 8/19/99 |
| 4 | 95.00552.01 | 08/933,633 | 9/19/97 |
| 5 | 95.00684.02 | 09/440,820 | 1/24/96 |
| 6 | 95.01014.02 | 09/684,701 | 10/6/00 |
| 7 | 96.00030.04 | 09/549,128 | 4/13/00 |
| 8 | 96.00030.05 | 09/549,132 | 4/13/00 |
| 9 | 96.00030.06 | 09/659,471 | 9/11/00 |
| 10 | 96.00138.01 | 08/960,716 | 10/30/97 |
| 11 | 96.00585.01 | 08/879,431 | 1/24/00 |
| 12 | 96.00614.00 | 08/835,732 | 9/22/99 |
| 13 | 96.00615.00 | 08/840,083 | 4/9/97 |
| 14 | 96.00615.01 | 08/872,010 | 6/9/97 |
| 15 | 96.00618.02 | 09/251,154 | 6/23/97 |
| 16 | 96.00642.00 | 08/903,819 | 7/31/97 |
| 17 | 96.00649.02 | 09/466,455 | 1/8/01 |
| 18 | 96.00651.01 | 09/006,083 | 1/13/98 |
| 19 | 96.00651.02 | 09/516,060 | 3/1/00 |
| 20 | 96.00653.02 | 09/409,124 | 9/30/99 |
| 21 | 97.00001.00 | 08/928,888 | 3/31/00 |
| 22 | 97.00009.01 | 08/964,581 | 11/5/97 |
| 23 | 97.00009.02 | 09/419,278 | 3/28/00 |
| 24 | 97.00009.03 | 09/536,813 | 3/28/00 |
| 25 | 97.00010.01 | 08/877,716 | 8/26/99 |
| 26 | 97.00015.01 | 08/959,231 | 9/3/99 |
| 27 | 97.00031.00 | 09/035,629 | 1/24/01 |
| 28 | 97.00031.01 | 09/035,739 | 8/3/00 |
| 29 | 97.00032.01 | 08/923,359 | 9/8/97 |
| 30 | 97.00039.00 | 09/036,504 | 3/6/98 |
| 31 | 97.00066.00 | 08/994,788 | 12/19/97 |
| 32 | 97.00176.01 | 09/031,133 | 2/26/98 |
| 33 | 97.00279.00 | 09/067,347 | 4/28/98 |
| 34 | 97.00279.01 | 09/067,467 | 4/28/98 |
| 35 | 97.00280.00 | 09/037,361 | 8/15/00 |
| 36 | 97.00280.01 | 09/037,360 | 3/9/98 |
| 37 | 97.00284.01 | 09/561,065 | 4/28/00 |
| 38 | 97.00974.00 | 08/966,761 | 5/16/00 |
| 39 | 97.00999.00 | 08/909,811 | 8/12/97 |
| 40 | 97.00999.01 | 09/634,691 | 8/8/00 |
| 41 | 97.01144.00 | 09/083,959 | 5/22/98 |
| 42 | 97.01210.00 | 08/963,379 | 11/3/97 |
| 43 | 97.01328.00 | 08/964,943 | 11/4/97 |
| 44 | 97.01336.00 | 09/008,749 | 10/4/00 |
| 45 | 97.01389.00 | 08/925,703 | 12/20/99 |
| 46 | 97.01523.00 | 08/971,372 | 7/5/00 |
| 47 | 97.01630.00 | 09/015,845 | 10/20/00 |
| 48 | 97.01630.01 | 09/015,376 | 1/29/98 |
| 49 | 97.01630.02 | 09/782,476 | 2/13/01 |
| 50 | 97.01631.00 | 09/277,482 | 3/26/99 |
| 51 | 97.01631.01 | 09/277,335 | 3/26/99 |
| 52 | 97.01633.00 | 08/985,155 | 12/4/97 |
| 53 | 97.01659.01 | 08/988,946 | 4/24/00 |
| 54 | 97.01670.00 | 08/994,836 | 3/22/00 |
| 55 | 97.01696.00 | 08/951,903 | 10/16/97 |
| 56 | 97.01813.00 | 09/098,937 | 6/17/98 |
| 57 | 97.01813.01 | 09/098,935 | 1/12/01 |
| 58 | 97.01816.00 | 08/980,590 | 10/4/00 |
| 59 | 97.01817.00 | 08/950,938 | 11/20/00 |
| 60 | 97.01837.00 | 08/964,522 | 11/4/97 |
| 61 | 97.01906.00 | 08/978,502 | 11/25/97 |
| 62 | 97.02018.00 | 08/941,995 | 10/1/97 |
| 63 | 97.02023.00 | 08/942,815 | 6/13/00 |
| 64 | 97.02028.00 | 08/941,970 | 10/1/97 |
| 65 | 97.02028.01 | 08/942,282 | 10/1/97 |
| 66 | 97.02153.01 | 08/994,498 | 12/19/97 |
| 67 | 97.02173.00 | 09/066,503 | 4/23/98 |
| 68 | 97.02173.01 | 09/066,502 | 4/23/98 |
| 69 | 97.02185.00 | 09/089,058 | 6/2/98 |
| 70 | 97.02260.00 | 08/987,005 | 10/12/00 |
| 71 | 97.02301.01 | 08/993,371 | 12/18/97 |
| 72 | 97.02318.00 | 09/023,389 | 2/13/98 |
| 73 | 97.02325.00 | 09/044,687 | 3/18/98 |
| 74 | 97.02377.00 | 09/069,728 | 4/29/98 |
| 75 | 97.02377.01 | 09/069,727 | 4/29/98 |
| 76 | 97.02552.00 | 08/940,301 | 11/18/99 |
| 77 | 97.02552.01 | 08/941,267 | 10/1/97 |
| 78 | 97.02553.01 | 08/942,405 | 4/5/00 |
| 79 | 97.02555.00 | 08/943,355 | 10/1/97 |
| 80 | 97.02557.02 | 09/552,032 | 4/19/00 |
| 81 | 97.02559.00 | 08/942,381 | 10/1/97 |
| 82 | 97.02559.01 | 08/942,164 | 10/1/97 |
| 83 | 97.02561.00 | 08/942,168 | 10/1/97 |
| 84 | 97.02563.00 | 08/942,404 | 10/1/97 |
| 85 | 97.02565.00 | 09/048,909 | 6/26/00 |
| 86 | 97.02565.01 | 09/048,818 | 1/17/01 |

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|---|---|---|---|---|---|---|---|
| 87 | 97.02597.00 | 08/969,821 | 4/10/00 | 131 | 97.03304.00 | 09/217,029 | 12/21/98 |
| 88 | 97.02602.00 | 09/578,951 | 5/25/00 | 132 | 97.03305.00 | 09/217,039 | 12/21/98 |
| 89 | 97.02603.00 | 09/099,762 | 6/18/98 | 133 | 97.03322.00 | 09/105,760 | 6/26/98 |
| 90 | 97.02685.00 | 08/942,160 | 10/1/97 | 134 | 97.03322.01 | 09/105,635 | 6/26/98 |
| 91 | 97.02685.02 | 09/686,527 | 10/10/00 | 135 | 97.03323.00 | 09/104,938 | 6/25/98 |
| 92 | 97.02685.03 | 09/686,254 | 10/10/00 | 136 | 97.03323.01 | 09/104,941 | 6/25/98 |
| 93 | 97.02687.00 | 08/942,402 | 7/26/00 | 137 | 97.03329.00 | 09/185,880 | 11/4/98 |
| 94 | 97.02687.01 | 08/942,448 | 10/1/97 | 138 | 97.03572.00 | 09/316,077 | 5/20/99 |
| 95 | 97.02690.00 | 08/942,309 | 10/1/97 | 139 | 97.03572.01 | 09/316,075 | 5/20/99 |
| 96 | 97.02690.01 | 08/942,457 | 10/1/97 | 140 | 97.03637.00 | 09/245,096 | 2/1/99 |
| 97 | 97.02691.00 | 08/942,306 | 10/1/97 | 141 | 97.03637.01 | 09/241,324 | 2/1/99 |
| 98 | 97.02691.03 | 08/942,336 | 4/3/00 | 142 | 97.03703.01 | 09/044,375 | 3/18/98 |
| 99 | 97.02692.00 | 08/942,311 | 10/1/97 | 143 | 97.03704.00 | 09/044,689 | 9/28/00 |
| 100 | 97.02692.01 | 08/942,069 | 10/1/97 | 144 | 97.03704.01 | 09/044,385 | 3/18/98 |
| 101 | 97.02696.01 | 08/942,408 | 9/3/99 | 145 | 97.03721.02 | 09/626,279 | 7/25/00 |
| 102 | 97.02697.02 | 09/258,095 | 10/1/97 | 146 | 97.03844.00 | 09/153,994 | 9/17/98 |
| 103 | 97.02702.00 | 08/942,005 | 10/1/97 | 147 | 97.03993.00 | 09/351,973 | 7/12/99 |
| 104 | 97.02702.01 | 08/943,356 | 2/15/00 | 148 | 97.03994.00 | 09/231,158 | 1/15/99 |
| 105 | 97.02703.02 | 09/251,954 | 11/7/00 | 149 | 97.03995.00 | 09/351,934 | 7/12/99 |
| 106 | 97.02706.01 | 08/943,044 | 10/1/97 | 150 | 97.03995.01 | 09/351,928 | 7/12/99 |
| 107 | 97.02708.01 | 08/942,409 | 10/1/97 | 151 | 97.04006.00 | 09/119,165 | 7/20/98 |
| 108 | 97.02708.02 | 09/658,333 | 9/8/00 | 152 | 97.04006.01 | 09/119,331 | 7/20/98 |
| 109 | 97.02710.01 | 08/942,411 | 10/1/97 | 153 | 97.04006.02 | 09/630,110 | 7/20/98 |
| 110 | 97.02711.00 | 08/942,319 | 10/1/97 | 154 | 97.04078.00 | 09/132,349 | 8/12/98 |
| 111 | 97.02711.01 | 08/942,331 | 10/1/97 | 155 | 97.04204.00 | 08/966,760 | 5/16/00 |
| 112 | 97.02714.00 | 08/942,462 | 4/21/00 | 156 | 98.00303.00 | 09/118,716 | 7/16/98 |
| 113 | 97.02750.00 | 09/122,518 | 7/24/98 | 157 | 98.00303.01 | 09/118,219 | 7/16/98 |
| 114 | 97.02750.PCT | PCT/US99/01643 | 1/26/99 | 158 | 98.00306.00 | 09/103,979 | 6/24/98 |
| 115 | 97.02750.TW | TW 88109910 | 6/14/99 | 159 | 98.00753.00 | 09/324,708 | 6/3/99 |
| 116 | 97.02922.00 | 09/156,369 | 9/17/98 | 160 | 98.00875.01 | 09/167,635 | 10/6/98 |
| 117 | 97.02922.01 | 09/156,370 | 9/17/98 | 161 | 98.00932.00 | 09/164,170 | 9/30/98 |
| 118 | 97.02947.00 | 09/098,779 | 6/17/98 | 162 | 98.01170.00 | 09/207,090 | 12/7/98 |
| 119 | 97.03233.01 | 09/565,182 | 5/3/00 | 163 | 98.01316.00 | 09/164,228 | 9/30/98 |
| 120 | 97.03238.00 | 09/095,852 | 6/10/98 | 164 | 98.01571.00 | 09/217,781 | 12/21/98 |
| 121 | 97.03238.01 | 09/095,433 | 6/10/98 | 165 | 98.01629.00 | 09/209,150 | 12/10/98 |
| 122 | 97.03246.00 | 09/129,981 | 8/5/98 | 166 | 98.01679.00 | 09/178,924 | 10/26/98 |
| 123 | 97.03246.01 | 09/130,199 | 8/5/98 | 167 | 98.01687.00 | 09/200,320 | 11/25/98 |
| 124 | 97.03248.00 | 09/186,499 | 11/4/98 | 168 | 98.01688.00 | 09/240,548 | 1/29/99 |
| 125 | 97.03265.00 | 09/052,808 | 3/31/98 | 169 | 98.01809.00 | 09/258,061 | 2/26/99 |
| 126 | 97.03267.00 | 09/049,687 | 3/27/98 | 170 | 98.01809.01 | 09/259,621 | 2/26/99 |
| 127 | 97.03270.04 | 09/657,354 | 9/7/00 | 171 | 98.02148.00 | 09/201,097 | 11/30/98 |
| 128 | 97.03301.00 | 09/217,040 | 12/21/98 | 172 | 98.02148.01 | 09/201,911 | 11/30/98 |
| 129 | 97.03302.00 | 09/219,501 | 12/21/98 | 173 | 98.02150.00 | 09/266,325 | 3/11/99 |
| 130 | 97.03303.00 | 09/217,032 | 12/21/98 | 174 | 98.02154.00 | 09/247,615 | 2/10/99 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 175 | 98.02155.00 | 09/201,536 | 10/22/98 | 219 | 99.00249.00 | 09/307,739 | 5/10/99 |
| 176 | 98.02155.01 | 09/201,407 | 11/30/98 | 220 | 99.00312.00 | 09/414,655 | 10/6/99 |
| 177 | 98.02195.00 | 09/201,330 | 11/30/98 | 221 | 99.00312.01 | 09/414,656 | 10/6/99 |
| 178 | 98.02195.01 | 09/203,109 | 11/30/98 | 222 | 99.00428.00 | 09/420,787 | 10/19/99 |
| 179 | 98.02277.00 | 09/349,735 | 7/8/99 | 223 | 99.00463.00 | 09/340, 722 | 6/29/99 |
| 180 | 98.02339.00 | 09/231,613 | 1/25/01 | 224 | 99.00500.00 | 09/457,207 | 12/7/99 |
| 181 | 98.02467.00 | 09/199,768 | 11/25/98 | 225 | 99.00558.00 | 09/317,841 | 5/25/99 |
| 182 | 98.02494.00 | 09/203,173 | 11/30/98 | 226 | 99.00559.00 | 09/519,641 | 3/6/00 |
| 183 | 98.02495.00 | 09/176,261 | 10/20/98 | 227 | 99.00617.00 | 09/317,840 | 5/25/99 |
| 184 | 98.02697.00 | 09/307,498 | 5/7/99 | 228 | 99.00627.00 | 09/472,725 | 12/27/99 |
| 185 | 98.02699.00 | 09/398,316 | 9/16/99 | 229 | 99.00648.00 | 09/350,908 | 7/12/99 |
| 186 | 98.02942.00 | 09/231,307 | 1/13/99 | 230 | 99.00649.01 | 09/758,672 | 1/11/01 |
| 187 | 98.03090.00 | 09/217,065 | 12/21/98 | 231 | 99.00651.00 | 09/313,813 | 5/18/99 |
| 188 | 98.03091.00 | 09/217,254 | 12/21/98 | 232 | 99.00652.00 | 09/334,637 | 6/17/99 |
| 189 | 98.03092.00 | 09/217,255 | 12/21/98 | 233 | 99.00672.00 | 09/313,815 | 5/18/99 |
| 190 | 98.03104.00 | 09/353,168 | 7/14/99 | 234 | 99.00673.00 | 09/314,058 | 5/18/99 |
| 191 | 98.03125.00 | 09/339,398 | 2/2/01 | 235 | 99.00700.00 | 09/510,793 | 2/23/00 |
| 192 | 98.03186.00 | 09/511,092 | 2/23/00 | 236 | 99.00739.00 | 09/345,759 | 7/1/99 |
| 193 | 98.03188.00 | 09/375,157 | 8/16/99 | 237 | 99.00799.00 | 09/377,069 | 8/19/99 |
| 194 | 98.03189.00 | 09/368,480 | 8/4/99 | 238 | 99.00976.00 | 09/457,680 | 12/9/99 |
| 195 | 98.03194.00 | 09/290,888 | 4/12/99 | 239 | 99.00979.00 | 09/386,311 | 8/31/99 |
| 196 | 98.03273.00 | 09/411,532 | 10/1/99 | 240 | 99.00983.00 | 09/570,127 | 5/12/00 |
| 197 | 98.03279.00 | 09/478,619 | 1/5/00 | 241 | 99.01017.00 | 09/363,788 | 7/29/99 |
| 198 | 98.03281.00 | 09/290.723 | 4/14/99 | 242 | 99.01023.01 | 09/371,135 | 8/10/99 |
| 199 | 98.03315.00 | 09/302,906 | 4/30/99 | 243 | 99.01245.00 | 09/383,470 | 8/26/99 |
| 200 | 98.03334.00 | 09/272,923 | 3/19/99 | 244 | 99.01304.00 | 09/770,553 | 1/26/01 |
| 201 | 98.03352.00 | 09/280,388 | 3/29/99 | 245 | 99.01681.00 | 09/553,305 | 4/20/00 |
| 202 | 98.03369.00 | 09/241,426 | 2/2/99 | 246 | 99.01684.00 | 09/617,517 | 7/14/00 |
| 203 | 98.03405.00 | 09/272,845 | 3/19/99 | 247 | 99.01770.00 | 09/502,793 | 2/11/00 |
| 204 | 98.03421.00 | 09/406,956 | 9/28/99 | 248 | 99.01860.00 | 09/548,826 | 4/12/00 |
| 205 | 98.03469.00 | 09/448,882 | 11/24/99 | 249 | 99.01954.00 | 09/330,374 | 6/10/99 |
| 206 | 98.03523.00 | 09/323,040 | 12/3/98 | 250 | 99.01956.00 | 09/371,924 | 8/11/99 |
| 207 | 98.03528.00 | 09/511,660 | 2/22/00 | 251 | 99.02108.00 | 09/419,523 | 10/18/99 |
| 208 | 98.03546.00 | 09/298,156 | 4/23/99 | 252 | 99.02194.00 | 09/479,884 | 1/10/00 |
| 209 | 98.03551.00 | 09/288,215 | 4/8/99 | 253 | 99.02461.00 | 09/505,599 | 2/16/00 |
| 210 | 98.03557.00 | 09/669,228 | 9/25/00 | 254 | 99.02462.00 | 09/472,728 | 12/27/99 |
| 211 | 98.03559.00 | 09/574,736 | 5/18/00 | 255 | 99.02541.00 | 09/544,701 | 4/6/00 |
| 212 | 98.03726.00 | 09/306,954 | 5/7/99 | 256 | 99.02560.00 | 09/415,028 | 10/7/99 |
| 213 | 98.03728.00 | 09/289,153 | 4/8/99 | 257 | 99.02560.01 | 09/415,029 | 10/7/99 |
| 214 | 98.03738.00 | 09/299,620 | 4/27/99 | 258 | 99.02632.00 | 09/412,702 | 10/5/99 |
| 215 | 98.03744.00 | 09/307,740 | 5/10/99 | 259 | 99.02860.00 | 09/526,910 | 3/16/00 |
| 216 | 98.03746.00 | 09/525,180 | 3/14/00 | 260 | 99.02972.00 | 09/612,155 | 7/7/00 |
| 217 | 98.03789.00 | 09/281,935 | 3/31/99 | 261 | 99.03146.00 | 09/492,828 | 1/27/00 |
| 218 | 99.00116.00 | 09/350,316 | 7/9/99 | 262 | 99.03185.00 | 09/449,782 | 11/24/99 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 263 | 99.03497.00 | 09/626,470 | 7/26/00 | 271 | 00.00315.00 | 09/550,726 | 4/17/00 |
| 264 | 99.03776.00 | 09/518,787 | 3/3/00 | 272 | 00.00902.00 | 09/706,690 | 11/6/00 |
| 265 | 99.04178.00 | 09/628,754 | 7/31/00 | 273 | 00.00903.00 | 09/632,194 | 8/2/00 |
| 266 | 99.04185.00 | 09/560,660 | 4/27/00 | 274 | 00.01750.00 | 09/733,373 | 12/8/00 |
| 267 | 99.04262.00 | 09/602,147 | 6/21/00 | 275 | 00.01751.00 | 09/733,372 | 12/8/00 |
| 268 | 99.04267.00 | 09/639,279 | 8/15/00 | 276 | 00.02702.00 | 09/776,364 | 2/2/01 |
| 269 | 99.04268.00 | 09/661,540 | 9/14/00 | 277 | 00.02703.00 | 09/769,556 | 1/25/01 |
| 270 | 99.04358.00 | 09/602,204 | 6/22/00 | | | | |

# Certificate of Mailing under 37 CFR 1.8

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