

PATENT ASSIGNMENT

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| SUBMISSION TYPE:           | NEW ASSIGNMENT       |
| NATURE OF CONVEYANCE:      | ASSIGNMENT           |
| CONVEYING PARTY DATA       |                      |
| Name                       | Execution Date       |
| NEC Corporation            | 06/16/2009           |
| RECEIVING PARTY DATA       |                      |
| Name:                      | Crescent Moon, LLC   |
| Street Address:            | 4365 Executive Drive |
| Internal Address:          | Suite 1100           |
| City:                      | San Diego            |
| State/Country:             | CALIFORNIA           |
| Postal Code:               | 92121                |
| PROPERTY NUMBERS Total: 23 |                      |
| Property Type              | Number               |
| Patent Number:             | 6009495              |
| Patent Number:             | 6125436              |
| Patent Number:             | 6161162              |
| Patent Number:             | 6192425              |
| Patent Number:             | 6311286              |
| Patent Number:             | 5072450              |
| Patent Number:             | 5129069              |
| Patent Number:             | 5157776              |
| Patent Number:             | 5253356              |
| Patent Number:             | 5436869              |
| Patent Number:             | 5530458              |
| Patent Number:             | 5692150              |
| Patent Number:             | 5745707              |
| Patent Number:             | 5870520              |

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PATENT  
REEL: 022973 FRAME: 0287

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| Patent Number: | 5933846 |
| Patent Number: | 6078972 |
| Patent Number: | 5146578 |
| Patent Number: | 5224217 |
| Patent Number: | 5253352 |
| Patent Number: | 5297270 |
| Patent Number: | 6038641 |
| Patent Number: | 6215719 |
| Patent Number: | 6256708 |

# CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 369461-16-SERIES 13 |
|-------------------------|---------------------|

|                    |                 |
|--------------------|-----------------|
| NAME OF SUBMITTER: | Antony M. Novom |
|--------------------|-----------------|

# Total Attachments: 10

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## Patent Assignment

1) US patents and patent applications

### *Assignment*

Whereas, NEC Corporation, a Japanese corporation, having a place of business at 7-1, Shiba 5-chome, Minato-ku, Tokyo 108-8001, Japan, hereinafter called Assignor, is the owner and assignee of record of the patents listed on the attached Schedule A; and

Whereas, Crescent Moon, LLC, having an address at 4365 Executive Drive, Suite 1100, San Diego, CA 92121, hereinafter called Assignee, desires to acquire the Assignor's entire right, title, and interest in said patents listed on the attached Schedule A

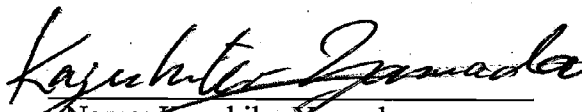
Now therefore, for good and valuable consideration paid to the Assignor, the receipt and sufficiency whereof is hereby acknowledged;

Assignor hereby sells, assigns and transfers to Assignee, its successors and assigns, the entire right, title and interest, including rights to recover for past, present and future causes of action and the right to sue for and collect damages, in and to the patents and patent applications listed on the attached Schedule A, including, without limitation, (a) the right to apply for any of all reissues, reexaminations, extensions, divisions, continuations, continuations-in-part, substitutions and renewals (i) of, and further (ii) in the same country as that of, any of said patents and patent applications (all of the foregoing hereinafter referred to as "Counterparts") and (b) all rights to causes of action and remedies arising from any of said patents and patent applications and said Counterparts for the full life of same;

IN WITNESS WHEREOF, Assignor has executed this Assignment by proper persons duly authorized.

NEC Corporation

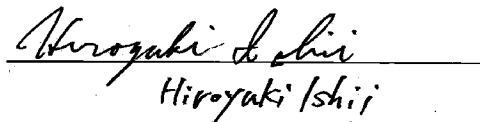
Date: June 16<sup>th</sup>, 2009



Name: Kazuhiko Yamada  
Title: General Manager,  
Intellectual Asset Development  
Promotion Division

Witness:

Date: June 16<sup>th</sup>, 2009

  
Hiroyaki Ishii

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## Schedule A

### US Patents and Patent Applications

| Country | Patent No. | Application No. | Title                                                                                                                                                                                      |
|---------|------------|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US      | 5175844    | 07/595816       | Execution Rate Controlling Device                                                                                                                                                          |
| US      | 5649209    | 08/713289       | Bus Coupling Information Processing System For Multiple Access To System Bus                                                                                                               |
| US      | 5941941    | 08/943141       | Bit Width Controlling Method                                                                                                                                                               |
| US      | 6115780    | 09/175275       | Interrupt Steering Circuit For Pci Bus                                                                                                                                                     |
| US      | 6567882    | 09/438635       | Pci Function Extension Control Device And Method Of Pci Function Extension Control                                                                                                         |
| US      | 6735671    | 09/612266       | System For Accessing Hard Disk Drive Built In Computer In Which Hard Disk Drive Built In Its Computer Can Be Accessed From Outside Its Computer Even If Computer Is Not Driven             |
| US      | 5317721A   | 07/432688       | Method And Apparatus To Disable Isa Devices For Eisa Addresses Outside The Isa Range                                                                                                       |
| US      | 5687379A   | 08/583277       | Method And Apparatus For Preventing Unauthorized Access To Peripheral Devices                                                                                                              |
| US      | 6026454A   | 08/169492       | Interface For Multiplexing And Reformatting Information Transfer Between Device Driver Programs And A Network Application Program Which Only Accepts Information In A Predetermined Format |
| US      | 6199163B1  | 08/621672       | Hard Disk Password Lock                                                                                                                                                                    |
| US      | 6208334B1  | 08/835617       | Text Reading Apparatus Text Reading Method And Computer-readable Medium Storing Text Reading Program                                                                                       |
| US      | 6226740B1  | 09/216610       | Information Processing Apparatus And Method That Uses First And Second Power Supplies For Reducing Booting Time                                                                            |
| US      | 6263305B1  | 09/127771       | Software Development Supporting System And Rom Emulation Apparatus                                                                                                                         |
| US      | 6363132B1  | 09/140703       | Asynchronous Data Conversion System For Enabling Error To Be Prevented                                                                                                                     |
| US      | 6483292B2  | 09/850381       | System For Inspecting A Replaceable Part In An Electronic Device                                                                                                                           |
| US      | 6502122B1  | 09/146239       | Method And Apparatus For Executing Transaction Programs In Parallel                                                                                                                        |
| US      | 6553400B1  | 09/511770       | Suspend And Resume Processing Method For Suspending And Resuming A Plurality Of States Of Programmed Operations                                                                            |
| US      | 6629109B1  | 09/517695       | System And Method Of Enabling File Revision Management Of Application Software                                                                                                             |
| US      | 6735768B1  | 09/545567       | Method And System For Installing A Software Product To A Computer With Authorization                                                                                                       |
| US      | 6751712B2  | 09/969994       | Circuit And Method For Executing Access Control Of Virtual Channel Memory Preventing Deterioration Of Data Transfer Rate                                                                   |
| US      | 6751795B1  | 09/464395       | System And Method For Software Installation                                                                                                                                                |
| US      | 6813671B1  | 09/345493       | Controller For Hot Swapping Of Extended I/o Device To Computer Body                                                                                                                        |
| US      | 6934850B2  | 09/846833       | Program Creation Method And Program Execution Method                                                                                                                                       |

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|----|-----------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| US | 7042524B2 | 09/984454 | Video Data Correction Device And Video Data Correction Method                                                                                     |
| US | 7130914B2 | 10/012501 | Database Synchronization System And Method                                                                                                        |
| US | 5094627   | 07/563060 | Printed Circuit Board Mounted Connector                                                                                                           |
| US | 5975780   | 09/175779 | Keyboard Cover                                                                                                                                    |
| US | 6018462   | 09/104824 | Multi-tip Module                                                                                                                                  |
| US | 6030241   | 09/056913 | Electrical Connector With Contacts Oriented Either Perpendicular Or Straight For Use On Printed Circuit Cards                                     |
| US | 6073762   | 09/069680 | Apparatus For Encasing A Disc-type Recording Medium Therein                                                                                       |
| US | 6100585   | 09/079327 | Structure For Mounting Device On Circuit Board                                                                                                    |
| US | 6111751   | 09/314133 | Connector And Connecting Structure Using Connector                                                                                                |
| US | 5045960A  | 07/365322 | Self-aligning Guide And Track For Removable Disk Drive Module                                                                                     |
| US | 5729431A  | 08/420377 | Heat Sink For A Portable Personal Computer                                                                                                        |
| US | 5786984A  | 08/415229 | Modular Portable Personal Computer                                                                                                                |
| US | 5793606A  | 08/410634 | Removable Lcd And Stand Assembly                                                                                                                  |
| US | 6108199A  | 08/958721 | Modular Portable Personal Computer Having Bays To Receive Interchangeable Modules                                                                 |
| US | 6134612A  | 6134612A  | External Modular Bay For Housing I/o Devices                                                                                                      |
| US | 6211475B1 | 09/482078 | Keyboard With Key Lock Function                                                                                                                   |
| US | 6262882B1 | 09/302452 | Small Thickness Lap-top Computer Having Peripheral Keys Of Reduced Height                                                                         |
| US | 6267608B1 | 09/397669 | Opening And Closing Structure For A Housing Cover Of A Connector Of An Information Processing Apparatus                                           |
| US | 6353535B1 | 09/250437 | Portable Computer Having Deformation Function                                                                                                     |
| US | 6547347B2 |           | Device Unit Housing Apparatus                                                                                                                     |
| US | 6595425B1 | 09/589807 | Mechanism And Method For Holding Portable Information Card And Information Appliance Using The Mechanism                                          |
| US | 6671012B1 | 09/654171 | Mounting Member For Fixing A Display Panel To A Display Unit Body                                                                                 |
| US | 6711030B2 | 10/008841 | Interconnecting Method Of Wiring In Printed Circuit Boards And Printed Circuit Board Unit                                                         |
| US | 6049038   | 09/124910 | Flip-chip Resin Sealing Structure And Resin Sealing Method                                                                                        |
| US | 6123558   | 09/190816 | Card Edge Connector With Insertion Direction Indicators                                                                                           |
| US | 6139207   | 09/313633 | Keyboard Apparatus                                                                                                                                |
| US | 6146175   | 09/100657 | Board Connectors Having A Low Profile And Which Undergo A Wiping Effect When Coupled                                                              |
| US | 6454202   | 09/788509 | Cable Storage Apparatus And Cable Processing Method                                                                                               |
| US | 4949934A  | 07/333373 | Computer Stand                                                                                                                                    |
| US | 5687387A  | 08/412505 | Enhanced Active Port Replicator Having Expansion And Upgrade Capabilities                                                                         |
| US | 5854736A  | 08/410633 | Peripheral Card Locking Device                                                                                                                    |
| US | 6062663A  | 6062663A  | Door For Computer Case                                                                                                                            |
| US | 6126332A  | 6126332A  | Apparatus And Method For Automatically Disconnecting Address And Data Buses In A Multimedia System When Docking With A Portable Personal Computer |
| US | 6128185A  | 6128185A  | Peripheral Card Locking Device                                                                                                                    |
| US | 6234831B1 | 09/428536 | Cable Housing Device                                                                                                                              |
| US | 6270268B1 | 09/590257 | Keyboard Apparatus                                                                                                                                |
| US | 6340145B1 | 09/376499 | Computer Fastening Device                                                                                                                         |
| US | 6449146B1 | 09/689638 | Notebook Personal Computer Machine                                                                                                                |

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|----|-----------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US | 6466897B1 | 09/258344 | Computer User Aiding System Computer User Aiding Method And Storage Medium Storing Program Therefor                                                                |
| US | 6525790B1 | 09/614594 | Liquid Crystal Module Mounting Structure                                                                                                                           |
|    |           |           |                                                                                                                                                                    |
| US | 6529382B2 | 09/471193 | Electronic Computer With A File Bay Cover Including An Electronic Lock And Method Of Controlling The Same                                                          |
| US | 6642624B2 | 09/576175 | Ball Grid Array Type Semiconductor Device                                                                                                                          |
| US | 6942060B2 | 10/201740 | Portable Information Terminal Device                                                                                                                               |
| US | 6964318B2 | 10/817912 | Portable Information Terminal Device                                                                                                                               |
| US | 5041968   | 07/535300 | Reduced Instruction Set Computer (risc) Type Microprocessor Executing Instruction Functions Indicating Data Location For Arithmetic Operations And Result Location |
| US | 5428743   | 07/859008 | Arrangement And Method Of Accessing Frame Buffer In Raster-scan Type Computer System                                                                               |
| US | 5532949   | 08/365448 | Barrel Shifter                                                                                                                                                     |
| US | 5596713   | 08/478363 | Method To Prevent Data Loss In An Electrically Erasable Read Only Memory                                                                                           |
| US | 5706482   | 08/672373 | Memory Access Controller                                                                                                                                           |
| US | 5748922   | 5748922A  | Method And Apparatus For Reading Data From A Write Only Port                                                                                                       |
| US | 5787260   | 08/934887 | Busline Length Recognition System                                                                                                                                  |
| US | 5825371   | 08/635597 | Graphics Controller Including A Sub-memory                                                                                                                         |
| US | 5828850   | 08/336197 | Busline Length Recognition System                                                                                                                                  |
| US | 6006287   | 08/954313 | Dma Transfer Of An Interleaved Stream                                                                                                                              |
| US | 5353416A  | 07/999189 | Cpu Lock Logic For Corrected Operation With A Posted Write Array                                                                                                   |
| US | 5363486A  | 08/091462 | Variable Size Queue Circuit For Buffering Data Transfers From A Processor To A Memory                                                                              |
| US | 5517648A  | 08/405550 | Symmetric Multiprocessing System With Unified Environment And Distributed System Functions                                                                         |
|    |           |           |                                                                                                                                                                    |
| US | 5557782A  | 08/273763 | Flexible Deterministic State Machine                                                                                                                               |
| US | 5696987A  | 08/622924 | Hardware Based Interface For Emulation Of A Standard System Control Processor                                                                                      |
| US | 5742841A  | 08/579037 | Alternate I/o Port Access To Standard Register Set                                                                                                                 |
| US | 5752063A  | 08/575004 | Write Inhibited Registers                                                                                                                                          |
| US | 5764995A  | 08/680099 | Write Once Read Only Registers                                                                                                                                     |
| US | 5802376A  | 08/874446 | Write Once Read Only Registers                                                                                                                                     |
| US | 5809290A  | 08/847399 | Programmable Hardware Counter                                                                                                                                      |
| US | 5822601A  | 08/549304 | Apparatus To Allow A Cpu To Control The Relocation Of Code Blocks For Other Cpus                                                                                   |
| US | 5848250A  | 08/468181 | Processor Upgrade System For A Personal Computer                                                                                                                   |
| US | 5867655A  | 08/914733 | Method To Store Privileged Data Within The Primary Cpu Memory Space                                                                                                |
| US | 5872967A  | 08/607445 | Method For Warm Boot From Reset                                                                                                                                    |
| US | 5956522A  | 08/405510 | Symmetric Multiprocessing System With Unified Environment And Distributed System Functions                                                                         |
| US | 5987618A  | 08/481850 | Programmable Hardware Timer Including Two Programmable Hardware Downcounters Wherein The Second Downcounter Counts In Multiples Of The First Downcounter           |

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|----|-----------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US | 6009495A  | 08/554667  | Protected Address Range In An Electrically Erasable Programmable Read Only Memory                                                                                                                                                                         |
| US | 6125436A  | 08/855810  | Symmetric Multiprocessing System With Unified Environment And Distributed System Functions Wherein Bus Operations Related Storage Spaces Are Mapped Into A Single System Address Space                                                                    |
| US | 6161162A  | 08/480047  | Multiprocessor System For Enabling Shared Access To A Memory                                                                                                                                                                                              |
| US | 6192425B1 | 08/839626  | Personal Computer Interrupt Line Sharing Circuit With Active Interrupt Line Monitoring And Method For Sharing A Common Interrupt Line By Active Monitoring                                                                                                |
| US | 6311286B1 | 08/258752  | Symmetric Multiprocessing System With Unified Environment And Distributed System Functions                                                                                                                                                                |
| US | 5072450   | 5072450A   | Method And Apparatus For Error Detection And Localization                                                                                                                                                                                                 |
| US | 5129069   | 5129069A   | Method And Apparatus For Automatic Memory Configuration By A Computer                                                                                                                                                                                     |
| US | 5157776   | 5157776A   | High Speed Memory For Microcomputer Systems                                                                                                                                                                                                               |
| US | 5253356   | 07/647100  | Direct Memory Access (dma) Request Controlling Arrangement Including Sample And Hold Circuits And Capable Of Handling Immediately Successive Dma Requests                                                                                                 |
| US | 5436869   | 08/271640  | Memory Controller Which Can Carry Out A High Speed Access When Supplied With Input Addresses With A Time Interval Left Between The Input Addresses Having The Same Row Address                                                                            |
| US | 5530458   | 08/281684  | Image Memory Control Device                                                                                                                                                                                                                               |
| US | 5692150   | 08/508186  | Cache Flash Controlling Method For Cache Memory System                                                                                                                                                                                                    |
| US | 5745707   | 08/504957  | Bus Control Device For Computer System Having Computer And Dma Device                                                                                                                                                                                     |
| US | 5870520   | 5870520A   | Flash Disaster Recovery Rom And Utility To Reprogram Multiple Roms                                                                                                                                                                                        |
| US | 5933846   | 08/552290  | Rewritable Rom File Device Having Read/write Buffer Access Control Via Copy Of Rewritable Area                                                                                                                                                            |
| US | 6078972   | 08/963012  | Control System Of Fifo Memories                                                                                                                                                                                                                           |
| US | 5146578A  | 07/685157  | Method Of Varying The Amount Of Data Prefetched To A Cache Memory In Dependence On The History Of Data Requests                                                                                                                                           |
| US | 5224217A  | 07/924391  | Computer System Which Uses A Least-recently-used Algorithm For Manipulating Data Tags When Performing Cache Replacement                                                                                                                                   |
| US | 5253352A  | 07/435,880 | Method And Apparatus For Pipelining Cache Accesses Using Anticipatory Initiation Of Cache Read                                                                                                                                                            |
| US | 5297270A  | 08/017,972 | Programmable Cache Memory Which Associates Each Section Of Main Memory To Be Cached With A Status Bit Which Enables/disables The Caching Accessibility Of The Particular Section And With The Capability Of Functioning With Memory Areas Of Varying Size |
| US | 6038641A  | 08/131,029 | Two Stage Cache Memory System And Method                                                                                                                                                                                                                  |
| US | 6215719B1 | 09/468545  | Memory Device Having Line Address Counter For Making Next Line Active While Current Line Is Processed                                                                                                                                                     |
| US | 6256708B1 | 08/919194  | Auxiliary Buffer For Direct Map Cache                                                                                                                                                                                                                     |

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|----|-----------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US | 6370402B1 | 09/500770  | Portable Radio Terminal                                                                                                                                                       |
| US | 6457106B1 | 09/120239  | Shared Memory Control System And Shared Memory Control Method                                                                                                                 |
| US | 6505287B2 | 09/733938  | Virtual Channel Memory Access Controlling Circuit                                                                                                                             |
| US | 6538999B1 | 09/243551  | Pid Filter Circuit And Fifo Circuit                                                                                                                                           |
| US | 5600580   | 08/468334  | Notebook Type Information Processing Apparatus Having Input Function With Pen                                                                                                 |
| US | 5742280   | 08/695532  | Hand-written Graphic Form Inputting Apparatus                                                                                                                                 |
| US | 5815140   | 08/563000  | Mouse With A Movable Cleaning Member                                                                                                                                          |
| US | 6424359   | 09/448149  | Screen Scroll Control Method And Recording Medium                                                                                                                             |
| US | 5136694A  | 07/334,841 | Method And Apparatus Facilitating Communication Between Two Keyboards And A Single Processor                                                                                  |
| US | 5596480A  | 08/218,625 | Split Rotatable Keyboard                                                                                                                                                      |
| US | 5646817A  | 08/614,481 | Adjustable Keyboard                                                                                                                                                           |
| US | 6236339B1 | 09/271607  | Key Input Unit Using Such Key And Control System Comprising Such Input Unit And Electronic Apparatus Acoustically Connected To Such Input Unit                                |
| US | 6256402B1 | 09/130219  | Password Input Apparatus Based On Fingerprint Recognition Of A Registered User Of A System                                                                                    |
| US | 6278384B1 | 09/144361  | Keyboard Control Method And Keyboard Control Apparatus                                                                                                                        |
| US | 6321281B1 | 09/170828  | Pointing Device With A Controller For Monitoring A Protocol Selector Signal Derived From A Computer To Select One Of A Compatibility Function And An Additional Function      |
| US | 6381132B1 | 09/175119  | Data Processing Apparatus                                                                                                                                                     |
| US | 6542147B2 | 09/724997  | Menu Selection Input Device                                                                                                                                                   |
| US | 6691189B2 | 09/970512  | Pointing Device With A Controller For Monitoring A Protocol Selector Signal Derived From A Computer To Select One Of A Compatibility Function And An Additional Function      |
| US | 6697054B1 | 09/599569  | Keyboard Device Capable Of Automatically Changing Function Of Certain Key Without Pressing A Specific Key                                                                     |
| US | 6774809B2 | 09/779667  | Personal Computer Card Slot And Information Processing Device Using Same                                                                                                      |
| US | 6781572B2 | 09/948489  | Optical Pointing Device Control Method Thereof And Computer Program Product Recording The Same                                                                                |
| US | 6791535B2 | 09/740820  | Resistance Film Type Touch Panel With Short Circuit Preventing Structure                                                                                                      |
| US | 6839781B1 | 09/717886  | Wireless Keyboard And Information Processing Device Having The Same                                                                                                           |
| US | 7003600B2 | 10/669265  | Pointing Device With A Controller Used For Monitoring A Protocol Selector Signal Derived From A Computer To Select One Of A Compatibility Function And An Additional Function |
| US | 5815194   | 08/597193  | Video-on-demand System                                                                                                                                                        |
| US | 5875174   | 08/771381  | Time-division Multiplex Communication Control Circuit For Atm Terminal                                                                                                        |
| US | 5956075   | 08/893992  | Catv Terminal Unit                                                                                                                                                            |
| US | 6031563   | 09/221118  | Video Telephone System Having Function Of Repelling Mischievous Call                                                                                                          |
| US | 6651250   | 09/173284  | Digital Broadcast Receiving System In Information Processor                                                                                                                   |



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|----|-----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US | 5214364A  | 07/703,464 | Microprocessor-based Antenna Rotor Controller                                                                                                                                                                            |
| US | 6405235B1 | 09/205856  | Data Receiving Device Capable Of Executing Simultaneous Reception Operation                                                                                                                                              |
| US | 6452952B1 | 09/112343  | Digital Information Processing System With Copy Protection Subsystem                                                                                                                                                     |
| US | 6507588B1 | 09/277660  | Integrated Services Digital Network Terminal Adapter                                                                                                                                                                     |
| US | 6529231B1 | 09/568249  | Television Meeting System                                                                                                                                                                                                |
| US | 6538685B2 | 10/004856  | Multipoint Video-meeting Control System                                                                                                                                                                                  |
| US | 6553440B1 | 09/471229  | Data Transfer Equipment For Connecting A Scsi Interface To An Ieee 1394 Interface                                                                                                                                        |
| US | 6598070B1 | 09/447552  | Data Sending/receiving System Data Receiving Device And Data Receiving Method Based On Generating A Temporary File-name And Temporary File-size According To A Position Information Before Storing On The Receiving Side |
| US | 6788337B1 | 09/260151  | Television Voice Control System Capable Of Obtaining Lively Voice Matching With A Television Scene                                                                                                                       |
| US | 6847777B1 | 09/592993  | Video Player And Video Playback Method Of A Video Player Having An Audio-visual Restriction Capability                                                                                                                   |
| US | 6996240B1 | 09/039072  | Loudspeaker Unit Adapted To Environment                                                                                                                                                                                  |
| US | 7003113B1 | 09/618281  | Position Authentication System And Electronic Equipment Using The Same                                                                                                                                                   |
| US | 7039731B2 | 10/601221  | Usb Interface Having Selector For Transmitting Usb Signal To Conversion Circuit And Another Usb Interface                                                                                                                |
| US | 7046287B2 | 09/733033  | Portable Information Terminal Equipped With Camera                                                                                                                                                                       |
| US |           | 11/338769  |                                                                                                                                                                                                                          |
| US | 5748898   | 08/695415  | Image Data Communication System                                                                                                                                                                                          |
| US | 5781740   | 08/597191  | Multimedia Communication System                                                                                                                                                                                          |
| US | 5893068   | 08/829753  | Method Of Expanding A Frequency Range Of A Digital Audio Signal Without Increasing A Sampling Rate                                                                                                                       |
| US | 6104868A  | 08/766,220 | Extendible And Portable Network Protocol Based System Management Architecture                                                                                                                                            |
| US | 6278985B1 | 09/193724  | Virtual Element Selection Device And Method Using A Neural Network                                                                                                                                                       |
| US | 6314407B1 | 09/480116  | Pos Terminal Unit Provided With Customer Approach Notification Function                                                                                                                                                  |
| US | 6397247B1 | 09/273528  | Failure Prediction System And Method For A Client-server Network                                                                                                                                                         |
| US | 6415331B1 | 09/296105  | Method Of Updating Accumulated Data With Middleware And Server System Performing The Same                                                                                                                                |
| US | 6417887B1 | 09/440,142 | Image Display Processing Apparatus And Method For Converting An Image Signal From An Interlaced System To A Progressive System                                                                                           |
| US | 6438118B1 | 09/102575  | Code-multiplexing Communication Apparatus                                                                                                                                                                                |
| US | 6526094B1 | 09/201969  | Pwm Circuit                                                                                                                                                                                                              |
| US | 6684083B1 | 09/692541  | Portable Information Terminal With Standby Power Supply                                                                                                                                                                  |
| US | 6747673B2 | 09/825192  | Method Software Product And System For Reproducing Video/audio Data                                                                                                                                                      |
| US | 6834042B1 | 09/717316  | Internet Telephone Apparatus And Method For An Internet Telephone Set                                                                                                                                                    |
| US | 6871230B1 | 09/606404  | System And Method For Personal Identification                                                                                                                                                                            |

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| US | 6898424B2 | 09/851967 | Remote Control Method And System Server Data Processing Device And Storage Medium                                                                                           |
| US | 6999568B1 | 09/564422 | Position Specifying System Information Collecting System Internet Connecting System And Method Of The Same And Storage Medium Storing Therein Program Thereof               |
| US | 7076526B2 | 09/878292 | Electronic Mail Transfer Device Terminal And System Having The Deviceand Telephone Number Transfer Deviceexchangetelephone And System Having The Device                     |
| US | 5386300   | 08/158698 | Picture Processing System For A Natural Picture In A Facsimile Device                                                                                                       |
| US | 5513301   | 08/342133 | Image Compression And Decompression Apparatus With Reduced Frame Memory                                                                                                     |
| US | 5565996   | 08/289586 | Video/audio Compressing Device And Reproducing Device Capable Of Preventing Deterioration Of Video With Synchronization Between Video And Audio                             |
| US | 5657089   | 08/539060 | Video Signal Processing Device For Sampling Tv Signals To Produce Digital Data With Interval Control                                                                        |
| US | 5774577   | 08/503270 | Compact Image Conversion System Operable At A High Speed                                                                                                                    |
| US | 5801775   | 08/682315 | Moving Picture Compression Using Cache Memory For Storing Coding Instructions                                                                                               |
| US | 5862412   | 08/588314 | Apparatus For Converting Document Data Into Bit Map Data And Compressing Display Image Formed By Combining The Bit Map Data And Image Data                                  |
| US | 5911030   | 08/685559 | Video And Audio Editing System                                                                                                                                              |
| US | 6021225   | 08/943410 | Image Processing Apparatus                                                                                                                                                  |
| US | 6034730   | 08/917849 | Module Switching Type Picture Compressing And Reproducing Apparatus                                                                                                         |
| US | 6999618   | 09/781280 | Object Extraction Device Object Extraction Method And Recording Media For Storing An Object Extraction Program                                                              |
| US | 6333763B1 | 09/229028 | Audio Coding Method And Apparatus With Variable Audio Data Sampling Rate                                                                                                    |
| US | 6417889B1 | 09/203757 | Picture Size Conversion Method And Device Thereof                                                                                                                           |
| US | 6512884B1 | 09/417658 | Method And Apparatus For Synchronized Play Back Of Audio-video Signals                                                                                                      |
| US | 6539001B1 | 09/116355 | Visual Telephone Apparatus And Data Compression Multiplexing Method Therefor As Well As Recording Medium On Which Data Compression Multiplexing Control Program Is Recorded |
| US | 6600835B1 | 09/591939 | Moving-picture Compressing Technique                                                                                                                                        |
| US | 6697528B1 | 09/666525 | Image Synthesis System And Method                                                                                                                                           |
| US | 6806914B1 | 09/695033 | Method And Apparatus For Changing The Size Of Image                                                                                                                         |
| US | 6851116B1 | 09/547036 | System For Optimally Distributing Processing Performance Of Av Apparatus                                                                                                    |
| US | 6907077B2 | 09/911309 | Variable Resolution Decoder                                                                                                                                                 |
| US | 5493345   | 08/207953 | Method For Detecting A Scene Change And Image Editing Apparatus                                                                                                             |
| US | 5512962   | 08/498191 | Motion Vector Detecting Apparatus For Moving Picture                                                                                                                        |
| US | 5555273   | 08/361218 | Audio Coder                                                                                                                                                                 |
| US | 5572334   | 08/358514 | Variable-length Coding Device                                                                                                                                               |

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| US | 5614900   | 08/315724  | Variable Word Length Code Decoding Apparatus Having Plural Decoding Tables For Decoding Long Words                                                              |
| US | 5635960   | 08/615165  | Horizontal Position Compensation Circuit                                                                                                                        |
| US | 5886708   | 08/853898  | Graphic Processor And A Bit-built Method Applied Therein                                                                                                        |
| US | 5915043   | 08/626391  | Image Reproducing Apparatus                                                                                                                                     |
| US | 5969763   | 08/740484  | Decoding System For Motion Picture Data                                                                                                                         |
| US | 6094456   | 09/130461  | Compact Image Transmission System And Image Reproducing Device Capable Of Reproducing A Dct-based Code At A High Speed Without Deterioration Of Picture Quality |
| US | 5847767   | 08/921472  |                                                                                                                                                                 |
| US | 6201896B1 | 09/208846  | Picture Encoding Apparatus                                                                                                                                      |
| US | 6212497B1 | 09/198266  | Word Processor Via Voice                                                                                                                                        |
| US | 6307470B1 | 09/444448  | Antitheft Apparatus Antitheft Method And Recording Medium Recording Thereon Antitheft Program                                                                   |
| US | 6509929B1 | 09/559269  | Apparatus And Method For Coding A Moving Picture                                                                                                                |
| US | 6604078B1 | 09/641242  | Voice Edit Device And Mechanically Readable Recording Medium In Which Program Is Recorded                                                                       |
| US | 6718295B2 | 09/186439  | Speech Band Division Decoder                                                                                                                                    |
| US | 6788741B1 | 09/690751  | Device And Method Of Retrieving High-speed Motion                                                                                                               |
| US | 6803968B1 | 09/547080  | System And Method For Synthesizing Images                                                                                                                       |
| US | 6839837B1 | 09/303561  | Cryptosystem Key Updating System And Method For Preventing Illegal Use Of Software                                                                              |
| US | 6845173B2 | 09/727499  | Apparatus And Method Of Inputting Fingerprints                                                                                                                  |
| US | 6870960B2 | 09/976016  | Image Encoder And Method Of Encoding Images According To Weight Of Portions Of Image                                                                            |
| US | 6940977B1 | 09/404712  | Digital Video And Audio Data Encryption Decryption And System Authentication                                                                                    |
| US | 6980733B2 | 09/822269  | Method For Moving Image Playback And Apparatus Therefor                                                                                                         |
| US | 7050494B1 | 09/325705  | Frame Display Method And Apparatus Using Single Field Data                                                                                                      |
| US | 7095853B2 | 09/792194  | System And Method For Preventing An Illegal Copy Of Contents                                                                                                    |
| US | 7113542B2 | 10/052521  | Image Editing Apparatus And Image Editing Method                                                                                                                |
| US | 5517396   | 08/243914  | Power Supply Apparatus Having Ac-dc Converter                                                                                                                   |
| US | 5530337   | 08/447035  | Battery Cluster Charger Having A Backup Charging System                                                                                                         |
| US | 6020879   | 08/942736  | Power Saving Circuit Of Lcd Unit                                                                                                                                |
| US | 6061220   | 09/328394  | Power Switching Circuit Of Network-connected Device                                                                                                             |
| US | 6100669   | 09/228927  | Full-charge Detecting Method And Charging Device For A Secondary Battery                                                                                        |
| US | 6728889   | 09/593459  | Password Recognition Circuit And Security Checking Method                                                                                                       |
| US | 5446403A  | 08/192,178 | Power On Reset Signal Circuit With Clock Inhibit And Delayed Reset                                                                                              |
| US | 5949736A  | 08/966201  | Memory Control Circuit Reducing A Consumed Power Of Memory                                                                                                      |
| US | 6169384B1 | 09/293,898 | Power Source System For Portable Electronic Devices                                                                                                             |
| US | 6236226B1 | 09/186016  | Test Method And System For Uninterruptible Power Supply                                                                                                         |
| US | 6252776B1 | 09/358771  | Heat Radiating Member For Heat Generating Device                                                                                                                |

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| US | 6275949B1 | 09/267677 | Power Controller For A Peripheral Device That Stores The On/off State Thereof When Power Is Removed From The Device                                                  |
| US | 6343010B1 | 09/432387 | Apparatus And System For Cooling A Portable Device                                                                                                                   |
| US | 6360185B1 | 09/148464 | Information Processing Apparatus And Control Method Of The Same                                                                                                      |
| US | 6377027B2 | 09/781135 | Discharge Circuit And Duty Ratio Setting Method                                                                                                                      |
| US | 6388432B2 | 09/736563 | Cpu Core Voltage Switching Circuit                                                                                                                                   |
| US | 6399877B1 | 09/576306 | Heat Sink                                                                                                                                                            |
| US | 6457136B1 | 09/340435 | Power Management Method Detecting Interruption Of Ac Power In Suspended State Of Computer System                                                                     |
| US | 6522513B1 | 09/431253 | Back-electromotive Force Protection Circuit                                                                                                                          |
| US | 6603317B2 | 09/789733 | Leakage Current Reduction Circuit And Power Supply Employing The Same                                                                                                |
| US | 6611067B2 | 09/854572 | Electric Power Supplier Method For Controlling Supplying Of Electric Power And Information Processing Device                                                         |
| US | 6628519B2 | 09/993706 | Computer Having A Function For Controlling Temperature Of File Bays                                                                                                  |
| US | 6654242B2 | 10/000399 | Electronic Apparatus With Built-in Cpu                                                                                                                               |
| US | 6661680B2 | 10/010417 | Higher Harmonic Suppressor Element And Dc Power Supply Unit Using The Same                                                                                           |
| US | 6734863B1 | 09/538985 | Display Controller For Display Apparatus                                                                                                                             |
| US | 6756767B2 | 10/274866 | Method For Charging And Discharging Battery Based On Charging Capacity                                                                                               |
| US | 6973582B2 | 10/208875 | Audio Signal Output Device In Which Optical Signals Are Not Output When A Plug Is Not Connected To An S/pdif Output Terminal                                         |
| US | 5075567   | 07/545920 | Electronic Switch Circuit                                                                                                                                            |
| US | 5086406   | 07/544863 | Circuit Arrangement For Decimal Arithmetic                                                                                                                           |
| US | 5155745   | 07/596305 | Synchronizer For Asynchronous Computer Command Data                                                                                                                  |
| US | 5463350   | 08/356488 | Biasing Circuit Of An Amplifier                                                                                                                                      |
| US | 5483293   | 08/273303 | Output Control Circuit Capable Of Carrying Out A Wide Variety Of Fade Operations                                                                                     |
| US | 5745847   | 08/686090 | Automatic Gain Control Circuit Capable Of Compensating Variation Of Reception Level With Wide Range                                                                  |
| US | 5838183   | 08/789658 | Clock Signal Generator Having Voltage Level Converting Circuit                                                                                                       |
| US | 5892551   | 08/954941 | Circuit And Method For Reducing Flicker                                                                                                                              |
| US | 6072367   | 09/208847 | Electronic Balance Adjusting Circuit                                                                                                                                 |
| US | 6249114B1 | 09/138715 | Electronic Component Continuity Inspection Method And Apparatus                                                                                                      |
| US | 6473722B1 | 09/215701 | Compact Fault Detecting System Capable Of Detecting Fault Without Omission                                                                                           |
| US | 6557109B1 | 09/454914 | Synchronizing Device And Method That Adjusts Readout Speed According To Remaining Quantity Of Data In Memory While Operating Decoder On Fixed Frequency System Clock |
| US | 6753926B1 | 09/540880 | Circuit For Generating Sampling Clock To Stably Sample A Video Signal And Display Apparatus Having The Circuit                                                       |
| US | 6996445B1 | 09/625510 | Sound Volume Adjustment System In Personal Computer And Sound Volume Adjustment Method Thereof                                                                       |

PATENT

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