

Recent IBM patents

The following patents were recently issued by the countries in which the inventions were made.

France

413,873	F. Bigo and V. Spagnol	Fast scheduler allowing transient computing overloads
495,328	G. Richter and J. C. Abbiate	Sigma-delta converter
534,030	J. Cresp, P. Borgnis, and R. Moreau	A frame transfer device for a fixed format frame transmission network

Germany

3,735,935.5	H. Baier, H. Reimann, and H. Roesch	Method and arrangement for fast evaluating clusters in the Hough space for determining the position and orientation of edges of a body (e.g., a chip)
4,402,716.8	H. Meyerdirks and W. Pietschmann	System for supplying power to a device and method for assessing the lifetime capacity of a power shortage means
4,417,132.3	G. Schmid, J. Greschner, T. Bayer, and V. Wolf	Resonant sensor
4,428,132.3	M. Paterok and S. Kaetker	System for checking a digital network
9,602,376.7	J. Seiffert	Integrated circuit
59,010,430.6	D. E. Staiger	Method of generating product-specific digital test signals for testing digital storages or logic circuits
68,926,886.6	H. Schettler, R. Zuehlke, and U. Schulz	Design system for VLSI chips arranged on a carrier and module thus designed
69,121,113.2	H. Diel, H. Dockweiler, and H. Welsch	Method for specifying user interfaces and programming system running A M user interface type computer

Japan

965,855	N. Mieki	Monitor pedestal
2,070,370	K. Shimada	A fast interference check method for off-line robot motion
2,070,406	E. Ofuka	Correspondence finding algorithm between expression in OR
2,070,499	N. Doi and T. Kanno	Push-pull type printhead
2,072,885	H. Yamaguchi	New driving method for TFT/LCD
2,074,912	S. Nakama and S. Tsuchida	DCA heat sink attach on carrier
2,074,924	H. Komiyama, S. Kawano, and S. Mukohyama	Restore method of the CPU contents for the protected mode with paging
2,074,925	K. Kuse, K. Mitsui, O. Ohira, and S. Shahram	Mechanism for dynamic change of relationship among subwindows
2,075,766	M. Atsumi, T. Matsumoto, and T. Yoshido	Active matrix liquid crystal display (II)
2,077,699	K. Koyamada, S. Uno, and T. Miyazawa	Realtime volume rendering hardware
2,079,442	F. Kodaira, H. Iida, M. Sohda, and Y. Nishioka	Dual screen display by mode change during display

2,080,942	S. Odaohara	DTMF tone detection method while sending voice
2,536,984	H. Hanabusa, N. Satoh, O. Yamamoto, and Y. Kotani	Three model FDD support on OS/55 products
2,537,013	H. Nishino, J. Mamiya, and K. Ishii	Two step PLL for video monitor
2,539,143	A. Funakoshi, M. Kobayashi, and R. Kataoka	Focus control system
2,539,153	I. Siio and M. Kobayashi	A virtual conference room
2,539,180	K. Takahashi, M. Ohta, and S. Tsuda	Constant pivot cartridge torque
2,543,286	H. Takano, H. Yamanaka, T. Fukunaga, and T. Koseki	Hybrid black matrix for LCD
2,544,581	A. Nakajima, F. Ando, and M. Kobayashi	An architecture for managing shared and distributed applications
2,544,858	M. Kobayashi and R. Kataoka	High voltage stabilizing system
United Kingdom		
490,001	A. N. Other, G. D. Beardall, and G. J. Calder	Coordinate processor for a computer system having a pointing device
578,403	C. C. Pietrzak	Colour field emission display
2,279,188	D. Leaver and F. S. Jackson	CRT display scan protection circuit
United States		
5,508,866	A. J. Wallash, C. H. Tsang, H. S. Gill, and T. Lin	Magnetoresistive sensor having exchange-coupled stabilization for transverse bias layer
5,508,867	D. E. Heim, P. K. Wang, and W. C. Cain	Magnetoresistive sensor with flux keepered spin valve configuration
5,508,883	D. Lumbra and M. Shaikh	Air mixer cool plate
5,508,937	A. D. Drumm, D. J. Hathaway, L. P. Vanginneken, and R. P. Abato	Incremental timing analysis
5,508,968	C. Desnoyers, C. A. Collins, D. B. Rolfe, D. E. Pontius, and W. J. Knowles	Dynamic random access memory persistent page implemented as processor register sets
5,509,086	A. Edgar	Automatic cross color elimination
5,509,106	G. G. Pechanek and S. Vassiliadis	Triangular scalable neural array processor
5,509,120	B. Khatri and S. Merkin	Method and system for detecting computer viruses during power on self test
5,509,122	D. W. Westcott, G. Salyer, L. T. Fasano, N. G. Bartow, R. S. Capowski, and T. A. Gregg	Reconfigurable, recoverable parallel bus
5,509,124	C. A. Malmquist, C. B. Perkins, D. G. Bourke, D. R. Chisholm, G. D. Float, H. R. Schwermer, J. D. Wilson, J. M. Nelson, R. A. Kelley, R. L. Place, and R. Y. Liu	Coupled synchronous-asynchronous bus structure for transferring data between a plurality of peripheral input/output controllers and a main data store
5,509,196	A. Trivedi, C. R. Davis, D. N. Light, H. L. Heck, J. S. Kresge, J. T. Kolias, S. L. Hanakovic, and T. P. Duffy	Method of fabricating a flex laminate package
5,509,200	J. A. Frankeny, K. A. Vanderlee, R. F. Frankeny, and R. L. Imken	Laminar stackable circuit board structure and manufacture
5,509,554	L. S. Samuelson, M. Murtagh, and R. L. Almes	Sacrificial structure masking method for disk drive slider assemblies and sliders made thereby
5,509,556	D. C. Long, G. M. Johnson, J. G. Balz, and M. LaPlante	Process for forming apertures in a metallic sheet
5,509,557	C. J. Sambucetti, L. Smith-Jimarez, R. J. Owen, V. Markovich, and W. H. Lawrence	Depositing a conductive metal onto a substrate
5,510,164	K. A. Rubin, M. Best, P. B. Comita, T. Suzuki, W. W. Tang, and Y. S. Yen	Single-sided ablative worm optical disk with multilayer protective coating
5,510,295	C. Cabral, D. W. Rakowski, F. M. d'Heurle, G. L. Miles, J. M. Harper, L. Clevenger, and R. W. Mann	A method of lowering the C49 to C54 transformation temperature
5,510,652	M. A. Leach and P. A. Burke	Leveling internal polishstop: A method and structure for improved BEOL planarization
5,510,808	D. P. Pazel and V. J. Cina	Scrollbar having system or user provided information
5,510,912	A. Vardy, G. T. Sincerbox, M. Blaum, and P. H. Siegel	Method and apparatus for modulation of multi-dimensional data in holographic storage
5,510,981	A. L. Berger, A. S. Kehler, P. F. Brown, R. L. Mercer, S. Della Pietra, and V. Della Pietra	Language translation apparatus and method using context-based translation models
5,511,016	R. Bechade	Method for store rounding and circuit therefor

5,511,031	D. Grover, E. F. O'Neil, and R. Ross	System clocked cache sensing for read modified write caches
5,511,135	C. G. Wolf, J. R. Rhyne, N. Anthony, and S. Levy	Stylus-input recognition correction manager
5,511,140	G. W. Johnson, J. Trehwella, M. Cina, M. Oprysko, and M. S. Cohen	Molded plastic optical fiber-optoelectronic converter subassembly
5,511,154	D. Kokoszka, L. E. Johnson, Jr., and S. P. Larky	Hierarchical memory controller
5,511,157	J. S. Wang	Connection of sliders to 3D objects to allow easy user manipulation and view of objects
5,511,165	A. G. MacInnis, M. Brady, and T. Powell	Method and apparatus for communicating data across a bus bridge
5,511,187	B. J. Cragun	Method and system for nonvisual groupware participant status determination in a data processing system
5,511,202	D. T. Crump, J. L. Combs, and S. Pancoast	Zero volt system suspend
5,511,204	D. T. Crump, J. Landry, P. H. Benson, and S. Pancoast	Performing system tasks at power-off using system management interrupt
5,511,205	C. D. Jones, F. P. Novak, K. Kannan, K. Leontiades, N. J. Lee, and V. Sharma	System for distributed power management in portable computers
5,511,208	G. M. Vacek, M. F. Gierlach, P. M. Gopal, R. A. Sultan, and R. W. Boyles	Locating resources in computer networks having cache server nodes
5,511,228	G. R. Stephens, J. E. Kulakowski, and R. J. Means	Controlling an optical disk drive using a mode set command
5,512,335	J. K. Ostrom, R. F. Nelson, and T. L. Miller	Fluid treatment device with vibrational energy means
5,512,394	H. Santini and M. D. Levenson	Method of coil fabrication for thin-film magnetic recording heads using phase-shifting masks
5,512,517	A. Bryant	Self-aligned gate sidewall spacers in corrugated FET and method of making the same
5,512,711	A. Mastreani, L. D. David, R. V. Vallabhaneni, S. Farooq, and S. N. Reddy	Copper-based paste containing refractory metal additions for densification control
5,512,767	W. P. Noble	Trench capacitor field shield with sidewall contact
5,512,892	E. J. Selker, J. D. Rutledge, and L. P. Corballis	Hand held control device
5,513,073	C. J. Guenther, D. L. Karst, D. P. Gaio, M. W. Leddige, T. D. Kidd, and T. R. Block	Optical device heat spreader and thermal isolation apparatus
5,513,135	G. C. Feng, L. Farrah, M. W. Kellogg, and T. Dell	A two clock and 168 pin DIMM design for synchronous DRAMs
5,513,170	H. J. Rosen, K. Rubin, M. E. Best, and T. Strand	Multiple data surface optical data storage system
5,513,225	D. E. Strayer, I. I. Novof, R. Kelkar, and S. Wyatt	Resistorless phase locked loop circuit employing direct current injection
5,513,298	A. G. Klein, N. F. Brickman, and V. Stanford	Multimedia instantaneous context switching for speech recognition systems
5,513,311	F. McKiel	Position-implied operators in graphical logic construction environment
5,513,313	C. T. Ho, J. Bruck, and R. E. Cypher	Method for generating hierarchical fault-tolerant mesh architectures
5,513,317	A. H. Lindsey, B. Whitenack, E. K. Borchardt, P. B. Owens, R. J. Hughes, S. G. Carley, and T. Wilson	System and method for permitting rapid refinement of data output from a debugger
5,513,323	M. L. Williams and R. Yun	Method and apparatus for multistage document format transformation in a data processing system
5,513,342	H. Tsuji, K. K. Leong, and R. D. Love	Display window layout system that automatically accommodates changes in display resolution, font size and national language
5,513,349	E. L. Porter, R. Tallman, and T. Horiguchi	System and method for safin of asynchronous interrupts
5,513,351	J. A. Grantz	A method for protecting a system during system maintenance
5,513,354	C. Dwork, H. R. Strong, and J. Halpern	Fault tolerant load management system and method
5,513,359	D. T. Crump, J. L. Combs, J. T. Kozel, M. W. Clark, and S. Pancoast	Single switch on/off/suspend/resume
5,513,365	G. L. Wiseman, J. A. Cook, J. A. Miller, and S. L. Jensen	Display adapter interface layer
5,513,366	B. Olsson, F. G. Gustavson, M. A. Johnson, R. C. Agarwal, and R. D. Groves	Method and system for dynamically reconfiguring a register file in a vector processor

5,513,368	D. G. Williams, E. H. Stelzer, G. Hoch, and S. E. Garcia	DMA adapters with programmable I/O control capabilities
5,513,371	J. L. Sanz and R. E. Cypher	Hierarchical interconnection networks for parallel processing
5,513,377	D. Casper, F. Cox, F. Ferraiolo, M. Halma, and R. S. Capowski	Enhanced input-output element
5,514,832	E. J. White and M. Dusablon	Microcavity structures, fabrication processes, and applications thereof
5,514,972	J. J. Hurd, M. Demoor, and P. W. Graf	Voltage comparison circuit
5,514,974	D. P. Bouldin	Test device and method for signalling metal failure of semiconductor wafer
5,514,975	A. L. Sartwell and E. P. Thoma	Data output impedance control
5,515,221	H. S. Gill and T. Lin	Magnetically stable shields for MR head
5,515,306	B. Blanner and D. R. Strouphauer	Processing system and method for minimum/maximum number determination
5,515,361	C. S. Li and R. Ramaswami	Link monitoring and management in optical star networks
5,515,366	A. Narasimhan, G. E. O'Neil, R. L. Zai, and T. C. Chieu	Method and apparatus for direction communication in a TDMA radio communication system
5,515,384	E. E. Horton	Method and system of fault diagnosis of application specific electronic circuits
5,515,438	C. H. Bennett and S. J. Wiesner	Quantum key distribution using non-orthogonal macroscopic signals
5,515,462	K. S. Huang and R. R. Shaw	Optical interconnect in optical packages using holograms
5,515,474	B. R. Ritthaler and R. Lisle	Audio I/O instruction interpretation for audio card
5,515,486	H. Y. Amro, R. L. Poston, S. H. Isensee, and T. L. Cline	Method, apparatus and memory for directing a computer system to display a multi-axis rotatable, polyhedral-shape panel container having FRON
5,515,491	C. Bates and J. M. Ryan	Method and system for managing communications within a collaborative data processing system
5,515,493	D. P. Pazel, J. S. Boston, and Z. P. Weiss	Window restoration methods for halted debuggee window applications
5,515,499	D. H. Surman, J. Anaya, J. Kleewein, J. M. Nick, K. B. Pushong, L. M. Goetze, M. D. Swanson, R. Parrish, R. A. Allen, and R. L. Brockmeyer	Method and system for reconfiguring a storage structure within a structure processing facility
5,515,511	A. Ruiz, B. E. Willner, D. Rana, and T. M. Nguyen	Hybrid digital/analog multimedia hub with dynamically allocated/released channels for video processing and distribution
5,516,217	D. E. Alexander, J. D. Thomas, and R. H. Harris	Document guiding ribbon cartridge
5,516,399	E. H. Ratzlaff, J. Wong, L. Li, M. J. Balconi-Lamica, S. G. Barbee, T. F. Heinz, and Y. Hsiao	Contactless real-time in-situ monitoring of a chemical etching process
5,516,412	F. Spera, H. R. Poweleit, J. Richter, J. E. Ordonez, J. O. Dukovic, K. Berridge, K. H. Wong, L. T. Romankiw, M. Flotta, O. P. Schick, and P. C. Andricacos	Vertical paddle plating cell
5,516,416	D. F. Canaperi and K. H. Ruffing	Apparatus and method for electroplating pin grid array packaging modules
5,516,418	A. F. Renaldo, D. R. McKean, R. J. Wilson, and S. K. Doss	Patterned electroplating
5,516,608	J. Shaw, J. L. Sturtevant, P. C. Hobbs, R. R. Jackson, S. Holmes, and T. Van Kessel	Method for controlling a line dimension arising in photolithographic processes
5,516,721	C. Galli, J. F. Shepard, L. Hsu, and S. Ogura	Isolation structure using liquid phase oxide deposition
5,516,726	P. S. Kim and S. Ogura	Local interconnection for semiconductors
5,516,874	A. Viehbeck, G. F. Walker, J. Labadie, J. L. Hedrick, K. W. Lee, K. Y. Ahn, and R. Twieg	Poly(aryl ether benzimidazoles), their use capping layers in microelectric structures
5,517,040	G. G. Koehler, J. T. Trnka, K. L. Ladin, and R. L. Hedman	Personalizable semiconductor chips for analog and analog/digital circuits
5,517,057	C. L. Bertin, J. E. Cronin, J. M. Leas, K. E. Beilstein, R. B. Phillips, and W. J. Howell	Electronic modules with interconnected surface metallization layers
5,517,127	J. Suarez, J. A. Thompson, R. J. Bergeron, and T. J. Lamothe	Additive structure and method for testing semiconductor wire bond dies
5,517,145	D. J. Frank	CMOS toggle flip-flop using adiabatic switching
5,517,193	C. L. Allison and D. T. Cookson	Meteorological workstation
5,517,332	D. E. Burgess, G. A. Greenly, M. G. Horeth, and P. A. Hakenewerth	Document scanner
5,517,340	A. E. Rosenbluth, D. G. Flagello, and F. E. Doany	High performance projection display with two light valves utilizing a color/polarizer wheel to sequentially illuminate between three colors

5,517,385	G. J. Saxenmeyer, Jr., J. Galvagni, and R. G. Murphy	Decoupling capacitor structure
5,517,441	C. D. Dietz and K. J. Hoover	Content addressable memory circuitry and method of operation
5,517,442	H. Wong, T. Kirihata, and Y. Watanabe	Random access memory and an improved bus arrangement therefor
5,517,498	J. F. Hauris and R. A. Bowen	Multimedia spatial reuse of bandwidth on a ring network
5,517,515	E. Spall and T. M. Storey	Multichip module with integrated test circuitry disposed within interposer substrate
5,517,519	G. Miracle, P. Potvin, and Q. J. Carbone	Apparatus for repowering and monitoring serial links
5,517,587	P. R. Swingle and R. G. Baker	Positioning method and apparatus for line scanned images
5,517,596	G. G. Pechanek, J. G. Delgado-Frias, and S. Vassiliadis	Learning machine synapse processor system apparatus
5,517,597	M. Aparicio and S. E. Otto	Convolutional expert neural system (CONEXNS)
5,517,612	D. Dwin, D. W. Nuechterlein, J. Pennisi, P. Yosim, and W. R. Lee	Device for scaling real-time image frames in multi-media workstations
5,517,623	A. E. Farrell, J. L. Regehr, K. K. Gerzsenyi, and R. J. Fuhrman	Flexible entry level or advanced level computer system
5,517,635	C. W. Cross and M. E. Trumbo	I/O device independent system and method for data input/output
5,517,642	J. D. Bezek and P. M. Kogge	Inferencing production control computer system
5,517,650	D. Moeller, L. M. Venarchick, M. Cases, P. M. Bland, R. G. Hofmann, S. Weitzel, and S. Yong	Bridge for a power managed computer system with multiple buses and system arbitration
5,517,662	D. R. Pruett, E. A. Vanderbeck, G. Rollo, J. Coleman, J. Hattersley, K. A. Hua, O. Monroe, R. Coleman, R. F. Stucke, and S. E. Bello	Multiprocessor system with distributed memory
5,517,670	J. W. Pence, R. A. Ripberger, R. G. Long, S. M. Fry, V. K. Allen, W. Rhoten, and W. B. Harding	Adaptive data transfer channel employing extended data block capacity
5,517,751	A. Bross, R. O. Lussow, and T. J. Walsh	Multilayer thermoplastic electronic package and method of making same
5,517,753	G. Messina	Adjustable spacer for flat cooling applications
5,517,754	C. L. Bertin, K. E. Beilstein, and W. J. Howell	Fabrication processes for monolithic electronic modules
5,518,131	D. B. Harris, H. H. Chen, and L. D. David	Etching molybdenum with ferric sulfate and ferric ammonium sulfate
5,518,324	D. K. Rex, J. H. Pattera, K. D. Schoedinger, M. Marefat, M. C. Campbell, R. D. Mayo, and T. V. Pham	Platen to print head gap adjustment arrangement
5,518,547	D. K. Coultas, J. C. Forster, J. H. Keller, and M. S. Barnes	Method and apparatus for reducing particulates in a plasma tool through steady state flows
5,518,945	A. Speranza, G. Hartstein, J. Bracchitta, and S. A. Mongeon	Method of making a diffused lightly doped drain device with built in etch stop
5,518,958	A. J. Yu and K. J. Giewont	Prevention of agglomeration and inversion in a semiconductor polycide process
5,519,193	A. Viehbeck, C. S. Long, D. Lewis, G. Mills, G. F. Walker, J. Van Horn, J. A. Haley, J. M. Yang, K. S. Ginn, P. E. Freiermuth, S. Lamaire, T. Redmond, and Y. Tsang	Method and apparatus for stressing, burning in and reducing leakage current of electronic devices using microwave radiation
5,519,510	A. Edgar	Electronic film development
5,519,562	A. Argumedo, D. W. Johnson, R. P. Zammit, and S. L. Felde	Compliant tape guide
5,519,600	S. J. Ahladas	Three-phase self-balancing power supply
5,519,628	G. S. Weinert and P. J. Russell	System and method for formulating subsets of a hierarchical circuit design
5,519,632	A. Huber, H. H. Chen, L. H. Hao, P. S. Honsinger, S. Lin, and T. Lavery	Automatic DCS routing for multilayer packages to minimize coupled noise
5,519,633	C. S. Chang, D. Gernhart, K. Ho, L. J. Shaffer, P. A. Hartley, R. A. Martone, R. D. Schoening, R. J. Haskins, R. T. Mulcahy, S. Desai, and S. A. Versprille	Method and apparatus for the cross-sectional design of multi-layer printed circuit boards
5,519,641	G. E. Beers, J. A. Brewer, J. M. Stafford, and P. R. Habermehl	Method and apparatus for configuring plural multimedia audio cards as a local area network
5,519,664	C. Desnoyers, C. A. Collins, D. B. Rolfe, D. E. Pontius, and W. J. Knowles	Dynamic random access memory persistent page implemented as processor register sets
5,519,701	A. A. Smith, M. Colmant, and R. W. Krug	Architecture for high performance management of multiple circular fifo storage means
5,519,796	C. S. Li and F. F. Tong	Gain equalization using monolithic planar waveguide grating multiplexer and demultiplexer

5,519,837	C. N. Tran	Pseudo-round-robin arbitration for a shared resource system providing fairness and high throughput
5,519,863	M. C. Zelek and W. Allen	Notification forwarding discriminator
5,519,868	J. Goodwin, P. J. Reder, and W. Allen	Compilation of information contained in GDMO name bindings
5,519,869	E. E. Payne, J. M. Shieh, and R. R. Ramirez	Multi-density data storage backup allowing bootstrap image storage in density required by initial boot code and other system images at higher densities
5,519,870	D. P. Lybrand, F. P. Novak, and K. Kannan	System and method for performing a continuous multi stage function
5,519,873	A. S. Butter, G. A. Zisko, H. C. Holland, and T. B. Mathias	Apparatus for switching digital command execution between a general purpose microprocessor and dedicated execution logic
5,519,936	F. E. Andros, J. Bupp, M. Dipietro, and R. B. Hammer	Electronic package with thermally conductive support member having a thin circuitized substrate and semiconductor device bonded
5,520,878	P. Duncombe, S. L. Shinde, and T. Takamori	Aluminum nitride body and method for forming said body utilizing a vitreous sintering additive
5,521,114	T. V. Rajeevakumar	Trench sidewall structure
5,521,115	J. Park and S. H. Voldman	Method of making double grid substrate plate DRAM cell array
5,521,118	C. H. Lam, D. Kenney, E. Adler, and J. S. Nakos	Sidewall strap
5,521,336	A. Tizzard and B. G. Utley	Simplified digital pad sensor
5,521,399	C. M. Hsieh, K. M. Kim, L. Hsu, S. F. Chu, and S. N. Mei	Advanced silicon on oxide semiconductor device structure for BiCMOS integrated circuit
5,521,422	B. Machesney, H. Wong, J. A. Mandelman, M. Armacost, and P. H. Pan	Corner protected shallow trench isolation device
5,521,434	J. E. Cronin, S. E. Luce, and S. H. Voldman	Semiconductor chip and electronic module with integrated surface interconnects/components
5,521,519	L. H. Faure and T. W. Spoor	Spring probe with piloted and headed contact and method of tip formation
5,521,601	A. Krishna and D. D. Kandlur	Power-efficient technique for multiple tag discrimination
5,521,630	D. D. Kandlur, M. S. Chen, and P. S. Yu	Frame sampling scheme for video scanning in a video-on-demand system
5,521,709	C. L. Chen, D. C. Bossen, F. Doany, M. Y. Hsiao, R. Rand, and R. J. Terbruggen	Continuous barcode marking system
5,521,772	A. C. Munce, C. K. Lee, and T. C. O'Sullivan	Disk drive with acceleration rate sensing
5,521,778	H. H. Ottesen and Z. E. Boutaghou	Disk drive with primary and secondary actuator drives
5,521,790	R. E. Tompkins, R. P. Westerfield, and R. R. Ruckel	Electrostatic chuck having relatively thick and thin areas and means for uniformly cooling said thick and thin areas during chuck anodization
5,521,809	D. J. Ashley, L. J. Hitchcock, and M. J. Johnson	Current share circuit for DC to DC converters
5,521,896	C. H. Bajorek, C. R. Nielsen, D. A. Thompson, G. J. Smith, G. R. Santana, K. B. Klaassen, M. L. Workman, and T. W. Glaser	Adaptive system for optimizing disk drive power consumption
5,521,985	K. J. Werkman and W. O. Camp	Apparatus for recognizing machine generated or handprinted text
5,521,991	D. W. Billings	Method and system for fast forms recognition of document form images
5,522,011	D. Nahamoo, J. Sedivy, M. A. Picheny, M. E. Epstein, and P. S. Gopalakrishnan	Speech coding apparatus and method using classification rules
5,522,019	G. P. Bala and K. Koyamada	Methods and apparatus for efficiently generating isosurfaces and for displaying isosurface and surface contour line image data
5,522,020	C. Narayanaswami	System and method for rapidly determining relative rectangle position
5,522,029	C. E. Hatfield	Fault tolerant rendezvous and semaphore for multiple parallel processors
5,522,032	A. Thomasian, J. T. Robinson, and P. A. Franaszek	Raid level 5 with free blocks parity cache
5,522,050	G. N. Santos, N. Amini, and V. Kohli	Bus to bus bridge for a multiple bus information handling system that optimizes data transfers between a system bus and a peripheral
5,522,064	A. Aldereguia, D. Cromer, P. M. Bland, and R. Stutes	Data processing apparatus for dynamically setting timing in a dynamic memory system
5,522,079	A. R. Martin, L. E. Acker, and L. K. Raper	Automatically merging two modules while preserving function or DER
5,522,088	D. Casper, F. Ferraiolo, M. Halma, M. W. Sachs, and R. S. Capowski	Shared channel subsystem

5,522,587	D. Craig, D. C. Loose, J. Varan, J. C. Colson, J. M. Banks, and M. R. Clearman	System and method for reordering a defective custom document in a document assembly system
5,522,963	M. A. Sarfaraz, M. W. Kapfhammer, N. A. Rizk, N. S. Sandhu, R. H. Anders, W. Cobbett, W. T. Grant, and Y. W. Yau	Method for machining and depositing metallurgy on ceramic layers
5,522,975	H. R. Poweleit, J. Richter, J. O. Dukovic, K. Berridge, L. T. Romankiw, O. P. Schick, and P. C. Andricacos	Electroplating workpiece fixture
5,523,173	B. Hermsmeier, M. Doerner, and T. Yogi	Magnetic recording medium with a CoPtCrB alloy thin film with a 1120 crystallographic orientation deposited on an underlayer
5,523,186	B. J. Lin and D. J. Samuels	Split and cover technique for phase shifting photolithography
5,523,243	S. N. Mohammad	Triple heterojunction bipolar transistor
5,523,253	D. Gilmour, D. C. Thomas, E. G. Walton, R. R. Uttecht, and T. Hartswick	Array protection devices and fabrication method
5,523,527	C. W. Mann and J. L. Peacock	Sliding electromagnetic control contact device
5,523,580	D. E. Davis	Reticle having a number of subfields
5,523,619	G. J. Robbins, G. M. Wilkins, J. A. McDonald, M. McAllister, and M. Swaminathan	High density memory structure
5,523,686	J. R. Kirtley and M. B. Ketchen	Probes for scanning SQUID magnetometers
5,523,696	A. P. Ingraham, G. Hill, G. Osborne, G. C. Correia, K. B. Horsford, M. A. Couture, M. D. Lowell, M. V. Pierson, R. G. Charlton, and V. R. Markovich	Method and apparatus for testing integrated circuit chips
5,523,707	E. B. Schorn and H. L. Levy	Fast, low power exclusive OR circuit
5,523,754	F. M. Fandrick and I. Eisen	Method and apparatus for automatic keyboard configuration by layout
5,523,776	A. Viehbeck and G. Hougham	Photovoltaic array for computer display
5,523,847	E. Feig and E. Linzer	Digital image processor for color image compression
5,523,898	A. J. Wallash and S. A. Jove	Partial MR sensor bias current during write
5,523,903	S. R. Hetzler and W. J. Kabelac	Sector architecture for fixed block disk drive
5,523,970	S. R. Riggio	A non-volatile memory utilizing a thin film, floating gate, amorphous transistor
5,524,035	H. F. Casal, M. L. Shulman, N. G. Thoma, R. Mahmud, and T. Nguyen	Symmetric clock system for a data processing system including dynamically switchable frequency divider
5,524,052	J. E. Neeley, K. Augustine, and N. C. Strole	Communication network access method and system
5,524,082	P. Horstmann, P. S. Sawkar, and T. E. Rosser	Redundancy removal using quasi-algebraic methods
5,524,132	N. N. Ranadive	A process for revealing defects in testpieces using attenuated high-energy X-rays to form images in reusable photographs
5,524,136	A. Bar-Noy and H. Kessler	Tracking mobile users in wireless networks
5,524,169	E. B. Sherwin, Jr., J. M. Lucassen, P. S. Cohen, and R. Miller	Method and system for location-specific speech recognition
5,524,192	E. E. Kelley and N. J. Dauerer	Simplifying the creation and maintenance of program comments
5,524,196	J. A. Blades	Method and system for manipulating data through a graphic user interface within a data processing system
5,524,204	W. G. Verdoorn	Method and apparatus for dynamically expanding a redundant array of disk drives
5,524,252	B. A. Smith, D. Desai, and L. H. Massman	Personal computer adapted for network communications and adapter
5,524,267	A. L. Chin, D. S. Keener, E. Stine, G. J. Moore, S. E. Garcia, and S. P. Payne	Digital I/O bus controller circuit with auto-incrementing, auto-decrementing and non-incrementing/decrementing access data ports
5,525,091	C. F. Lam and Y. N. Yong	Multi-adjustable row transfer tool
5,525,369	A. R. Knoll, G. J. Matarese, K. J. Blackwell, P. C. Chen, R. Weale, and S. E. Deliman	Method for metallizing through holes in thin film substrates, and resulting devices
5,525,392	G. W. Tyndall, M. S. Crowder, P. B. Comita, and T. H. Baum	Process for coating magnetic recording device
5,525,531	G. B. Bronner, J. Debrosse, and J. A. Mandelman	SOI DRAM with field-shield isolation
5,525,761	A. Mastreani, L. D. David, R. V. Vallabhaneni, S. Farooq, and S. N. Reddy	Copper-based paste containing refractory metal additions for densification control
5,525,828	E. Bassous, J. M. Halbout, M. A. Ghioni, M. R. Scheuermann, R. V. Joshi, S. S. Iyer, and V. P. Kesan	High speed silicon-based lateral junction having recessed electrodes and thick oxide to reduce fringing fields

5,525,914	N. G. Thoma, S. Dutta, T. A. Cao, T. D. Trinh, and T. Q. Nguyen	CMOS differential driver and receiver
5,525,932	I. I. Novof, R. Kelkar, and S. Wyatt	Lock indicator for phase locked loop circuit
5,525,982	J. Cheng and Y. Cheng	A method and means for character string pattern matching for compression and the like using minimal cycles per character
5,526,017	B. Wilkie	Analog image signal processor for a multimedia system
5,526,054	A. Ngai, D. Mauersberg, and J. D. Greenfield	Apparatus for header generation
5,526,144	L. D. Dickson	Holographic beam bender with virtual beam-pivot point
5,526,146	D. S. Goodman, J. S. Lipscomb, M. M. Loy, R. H. Wolfe, and R. T. Hodgson	Back-lighting system for transmissive display
5,526,205	A. Aoyagi and O. J. Ruiz	Transducer suspension system
5,526,211	S. R. Hetzler	Banded magnetic recording disk with equally-angularly-spaced servo sectors
5,526,228	D. W. Hill, J. T. Gullicksrud, M. D. O'Connell, M. M. Thornton, R. E. Dickson, and T. K. Murphy	Computer system unit with acoustic dampening cooling fan shroud panel
5,526,279	G. J. Dick	Nested overlap removal for physical design data using frames
5,526,283	J. G. Waclawsky and P. C. Hershey	Realtime high speed data capture in response to an event
5,526,314	M. Kumar	Two mode sense amplifier with latch
5,526,319	D. J. Frank and R. H. Dennard	Memory with adiabatically switched bit lines
5,526,329	A. Mojica, D. E. Call, G. A. Jaquette, J. Bish, J. A. McDowell, and L. D. Tipton	Calibration of readback threshold in an optical storage device
5,526,471	A. D. Bowen and D. Tannenbaum	Improved rendering of non-opaque media using the P-buffer to account for polarization parameters
5,526,472	O. Strohacker	Method and system for representing a bit pattern for utilization in linear or circular shift operation
5,526,480	K. P. Gibson	Time domain scroll bar for multimedia presentations in a data processing system
5,526,483	E. A. McCassey, G. L. Morris, and S. M. French	Fast network file system running over a hybrid connectionless transport
5,526,484	D. Casper, E. Loizides, J. A. Deveer, J. H. Sorg, and M. W. Sachs	Method and system for pipelining the processing of channel command words
5,526,488	J. G. Waclawsky, P. C. Hershey, and R. F. Daugherty	Dynamic switching between a first event driven interface and a second event driven interface based on inband information in a data communications network
5,526,491	Y. Wei	Compact stub files for remote procedure calls
5,526,512	A. M. Youngs, D. G. Gregoire, and R. K. Arimilli	Dynamic management of snoop granularity for a coherent asynchronous DMA cache
5,526,521	B. Fitch and M. Giampapa	Method and system for process scheduling from within a current context and switching contexts only when the next scheduled context is different
5,526,524	H. H. Madduri	Method and system for management of locked objects in a computer supported cooperative work environment
5,527,110	A. P. Praino, D. W. Abraham, H. K. Wickramasinghe, and M. E. Re	Method and apparatus for detecting asperities on magnetic disks using thermal proximity imaging
5,527,120	E. F. Helinski	Ribbon shield for impact line printers
5,527,566	A. Viehbeck and M. J. Schadt	Conditioning of a polymeric substrate
5,527,838	A. Afzali, A. Viehbeck, J. C. Hedrick, J. M. Shaw, J. T. Gotro, K. Papatthomas, and N. M. Patel	Toughened polycyanurate resins containing particulates
5,528,003	T. R. Mueller and W. Bodin	Data compression for pen stroke input
5,528,033	J. C. Lo and T. J. O'Leary	Automatic surface profiling for submicron device
5,528,062	C. M. Hsieh, L. Hsu, and S. Ogura	High-density DRAM structure on SOI
5,528,137	S. R. Riggio	Network sensitive pulse generator
5,528,149	Z. X. Chen	Test circuit for back-up battery
5,528,159	A. P. Ingraham, G. Hill, G. Osborne, G. C. Correia, K. B. Horsford, M. A. Couture, M. D. Lowell, M. V. Pierson, R. G. Charlton, and V. R. Markovich	Method and apparatus for testing integrated circuit chips
5,528,178	A. R. Pelella	Sense and hold amplifier
5,528,188	M. H. Tong and W. M. Au	Electrostatic discharge suppression circuit employing low voltage triggering silicon controlled rectifier
5,528,222	M. J. Brady, P. A. Moskowitz, and P. W. Coteus	Radio frequency circuit and memory in thin flexible package
5,528,259	C. Bates and J. M. Ryan	Method and system for multi-dimensional scrolling of displayed data collections in a data processing system
5,528,266	A. R. Tannenbaum, E. C. Greanias, F. L. Stein, and G. W. Arbeitman	Flat touch screen workpad for a data processing system

5,528,440	C. Tsang, R. E. Fontana, and T. Lin	Spin valve magnetoresistive element with longitudinal exchange biasing of end regions abutting the free layer, and magnetic recording system
5,528,508	G. S. Weinert and P. J. Russell	System and method for verifying a hierarchical circuit design
5,528,514	M. Pietras and S. M. Hancock	Luminance transition coding method for software motion video compression/decompression
5,528,594	A. S. Butter, C. Y. Kao, and J. P. Kuruts	Method and system for implementing sub-tokens on a token ring network
5,528,601	M. S. Schmookler	Scannable latch for multiplexor control
5,528,602	C. J. Melhuish and R. M. West	Method for determining computer subsystem property
5,528,616	B. Pezeshki, F. F. Tong, and J. A. Kash	Asymmetric dual waveguide laser
5,528,626	D. J. Brigida, T. Pate, and V. S. Moore	Method and system for modem command processing during data transfer
5,528,741	B. Lucas	Method and apparatus for converting floating-point pixel values to byte pixel values by table lookup
5,528,745	C. D. King and R. J. Torres	Method and system in a data processing system for the intuitive display of schedule information for users within a single viewport
5,528,750	B. P. Lubart and T. V. Weaver	Method/apparatus for recovering from a process within the system kernel without creating a recovery environment
5,528,753	M. R. Fortin	System and method for enabling stripped object software monitoring in a computer system
5,528,755	B. Henry, B. C. Beardsley, J. H. Cord, M. H. Hartung, M. T. Benhase, P. Hodges, P. L. Leung, R. Shomler, and S. K. Candelaria	Invalid data detection recording and nullification
5,528,759	R. E. Moore	Method and apparatus for correlating network management report messages
5,528,763	D. Serpanos	System for admitting cells of packets from communication network into buffer of attachment of communication adapter
5,528,819	A. C. Tam, H. S. Nishihira, and J. M. McKay	Combination transducer/slider/suspension and method of making
5,528,922	A. C. Tam, K. Flechsig, M. F. Lee, P. Baumgart, T. O'Sullivan, T. A. Nguyen, U. V. Nayak, and W. P. Leung	Method of making disk bumps with laser pulses for calibrating PZT sliders
5,529,405	C. J. Senft, J. H. Pattera, J. L. Breitenbach, M. C. Campbell, and M. J. Brown, Jr.	Manual control/override for automatic forms thickness adjustment
5,529,670	B. Vollmer, D. C. Strippe, and J. Ryan	Method of depositing conductors in high aspect ratio apertures under high temperature conditions
5,529,836	A. Afzali, A. Viehbeck, J. C. Hedrick, J. M. Shaw, J. T. Gotro, K. Papathomas, and N. M. Patel	Modified dicyanate ester resins having enhanced fracture toughness
5,529,944	T. V. Rajeevakumar	Method of forming cross point four square folded bitline trench DRAM cell
5,529,980	A. Gupta	Multilayer distorted-lattice copper-oxide perovskite structures including NdCeCuO and YBaCuO multi-layers
5,530,251	P. F. Petric	Inductively coupled dual-stage magnetic deflection yoke
5,530,252	P. F. Petric	Inductively coupled dual-stage magnetic deflection yoke
5,530,262	J. E. Cronin, K. E. Morrett, M. D. Potter, and M. J. Rutten	Bidirectional field emission devices, storage structures and fabrication method
5,530,263	D. Di Vincenzo	Three dot computing elements
5,530,280	E. J. White	Process for producing crackstops on semiconductor devices and devices containing the crackstops
5,530,288	D. B. Stone	Passive interposer including at least one passive electronic component
5,530,290	B. L. Crowder, J. M. Aitken, K. D. Beyer, and S. E. Greco	Large scale IC personalization method employing air dielectric structure for extended conductors
5,530,291	B. Chan, F. L. Chapin, J. Mankus, R. Pokrzywa, and V. M. Fiacco	Electronic package assembly and connector for use therewith
5,530,293	R. Uttecht, S. A. Cohen, and V. McGahay	Carbon-free hydrogen silsesquioxane with dielectric constant less than 3.2 annealed in hydrogen for integrated circuits
5,530,371	B. C. Pickering, C. H. Perry, D. C. Long, P. C. Vittori, and T. L. Bauer	Probe card assembly
5,530,375	V. P. Seidel	Method of testing circuits and/or burning-in chips
5,530,401	S. Dutta and T. A. Cao	Single source differential circuit
5,530,546	C. Fleck, C. M. Decusatis, and W. A. Barringer	Method and apparatus for testing fiber optic jumpers
5,530,557	A. Dan and D. Sitaram	Online placement of video files determined by a function of the bandwidth to space ratio of each of the storage devices in a server environment

5,530,595	C. J. Freedenberg, F. A. Herring, and U. A. Ziemins	Variable focus color corrected field lens
5,530,601	A. S. Patapoutain and R. A. Hutchins	Tracking threshold circuit for peak detection
5,530,602	D. C. Buettner, J. K. Spong, T. S. Larson, and Z. E. Boutaghou	Disk drive micromotion starting apparatus and method
5,530,604	S. Pattanaik	Information storage system having an improved slider-suspension assembly
5,530,606	D. L. Roach, H. J. Baasch, J. T. Coffey, and W. W. Brooks, Jr.	Low profile head suspension assembly
5,530,608	E. V. Denison, J. A. Aboaf, and V. N. Kahwaty	Hard-film stabilized soft-film biased magnetoresistive sensor with an alumina underlayer pattern for improved longitudinal servo positioning linearity and stability
5,530,658	J. A. Tomlin, J. L. Hafner, and L. L. Williams	System and method for packing heat producing devices in an array to prevent local overheating
5,530,663	H. Ling, L. C. Garcia, and N. Kollesar	Floating point unit for calculating a compound instruction A+BXC in two cycles
5,530,677	D. Grover, E. F. O'Neil, and R. Ross	Power PC 601 cache self timed write
5,530,688	J. E. Hurst, K. A. Rubin, and Y. Hsieh	Optical disk recording device using two modulated laser beams for recording information data
5,530,696	A. K. Boggs, C. L. Purrington, D. Hoang, J. M. Jacobs, J. M. Mullen, and L. A. Weaver	Intelligent concentrator for multiple speed data communications systems
5,530,749	J. E. Campbell, R. J. Easter, and V. A. Spano	Methods and apparatus for secure hardware configuration
5,530,753	J. E. Campbell, R. J. Easter, and V. A. Spano	Methods and apparatus for secure hardware configuration
5,530,757	H. Krawczyk	Distributed fingerprints for information integrity verification
5,530,759	F. C. Mintzer, G. W. Braudaway, and K. A. Magerlein	Color correct digital watermarking of images
5,530,762	B. D. Jobse and R. H. Jones	Real-time digital audio reverberation system
5,530,796	J. S. Wang	Menu bar editor
5,530,819	E. R. Morse, K. F. Day, and W. D. La Mear	System and method for mapping directly accessible magnetic DASD storage to fixed block optical storage
5,530,832	K. So and W. H. Wang	Essential inclusion scheme for multiprocessor memory hierarchy
5,530,836	E. P. Thoma and R. E. Busch	Method and apparatus for multiple memory bank selection
5,530,846	H. R. Strong	System for decoupling clock amortization from clock synchronization
5,530,850	D. A. Ford and R. J. Morris	Data storage library array with log-structured file system which allows simultaneous write and garbage collection
5,530,853	D. J. Schell and L. A. Melkus	Method for extended filtering of items in a computer application program container object
5,530,855	S. Satoh and Y. Takase	Computerized method and system for replicating a database using log records
5,530,868	A. M. Shepherd, S. E. Record, and S. S. Shultz	Notification of event handlers in broadcast or propagation mode by event management services in a computer system
5,530,872	A. F. Neel II, F. J. Schroeder, H. C. Lin, J. P. Ward, K. D. Smeltzer, R. G. Hillis, and T. J. Louie	Method and system for detecting hardware interrupts
5,530,879	D. T. Crump, P. H. Benson, and S. Pancoast	Power management processor for suspend systems
5,530,883	D. B. Lindquist, D. H. Gibson, G. A. Brent, and R. I. Baum	Database engine
5,530,887	G. M. Vrana, J. C. Peterson, J. D. Harper, J. D. Touchton, and W. G. Voigt	Method and apparatus for providing automatic hardware device identification in computer systems that include multi-card adapt
5,530,894	D. C. Kuhl, J. K. Farrell, J. S. Gordon, R. V. Jenness, T. E. Parker, and T. V. Lee	Integrated data link controller with internal channel switch
5,530,942	J. Jacobson and S. Matzou	Graphic and text interactive user interface for a program execution analyzer
5,530,948	R. Islam	Read-modify-write operation in drives with tagged command queueing
5,530,963	D. C. Wu, R. G. Van Duren, and V. S. Moore	Method and system for routing path determination for mobile workstations in a multisegment local area network
5,531,017	A. M. Desouches, A. P. Deshpande, and M. A. Church	Thin film magnetic head fabrication method
5,531,022	B. S. Beaman, D. Y. Shih, F. E. Doany, G. F. Walker, J. J. Ritsko, J. L. Hedrick, K. E. Fogel, L. Shi, M. H. Norcott, and P. A. Lauro	Method of forming a three-dimensional high performance interconnection package

5,531,838	C. Okoro, H. J. Golden, I. S. Mahmoud, J. Spalik, R. Arldt, and S. H. Downey	Flux composition and corresponding soldering method
5,531,874	D. Brophy, D. B. Harris, F. A. Spera, F. S. Ryan, and M. Datta	Electroetching tool using localized application of channelized flow of electrolyte
5,532,024	I. Memis, J. Spalik, I. J. Matienzo, S. F. Arndt, and T. Y. Wu	Method for improving the adhesion of polymeric adhesives to nickel surfaces
5,532,031	S. Farooq, S. Purushothaman, S. N. Reddy, and V. Sura	I/O pad adhesion layer for a ceramic substrate
5,532,089	C. M. Yuan, D. Dove, L. Hsu, T. Brunner, and W. J. Adair	Simplified fabrication methods for rim phase-shift masks
5,532,109	A. F. Renaldo, D. J. Werner, and M. T. Krounbi	AZO dyes as adhesion promotion additive in polydimethylglutarimide
5,532,457	J. M. Cobb and P. K. Parker	Modified quartz plate to provide non-uniform light source
5,532,496	C. A. Gaston	Proximity effect compensation in scattering-mask lithographic projection systems and apparatus thereof
5,532,518	J. M. Wursthorn, M. C. Hakey, and S. J. Holmes	Electrical connect and method of fabrication for semiconductor cube technology
5,532,519	C. L. Bertin, D. J. Perlman, and J. E. Cronin	Cube wireability enhancement with chip to chip alignment and thickness control
5,532,608	A. Behfar-Rad, C. H. Perry, and K. G. Sachdev	Ceramic probe card and method for reducing leakage current
5,532,611	H. Kolan, J. Hammond, J. C. Lo, J. E. Boyette, and M. Servedio	Miniature probe positioning actuator
5,532,619	A. R. Bonaccio	Precision level shifter with current mirror
5,532,622	J. A. Fifiela and M. Beiley	Multi-input transition detector with a single delay
5,532,641	N. J. Lee, P. Balasubramaniam, and S. Lekuch	ASK demodulated implemented with digital bandpass filter
5,532,715	C. Bates, H. G. Kiel, J. A. Blades, J. M. Ryan, and R. Romon	Visually aging scroll bar
5,532,888	D. C. Acosta and P. Y. Hu	Cartridge magazine with cartridge processing status indicator
5,532,890	L. K. Dorius and L. S. Samuelson	Negative pressure slider with optimized leading pocket for profile control
5,532,903	R. A. Kendall	Membrane electrostatic chuck
5,532,907	A. L. Balan, J. A. Asselta, J. E. Myers, and S. Boyko	Computer system with improved power bus
5,532,920	J. N. Stevens, N. J. Sabia, and T. V. Hartrick	Bookmanager royalty tracking
5,532,931	C. A. Thompson, Jr., J. Gazza, J. N. Erickson, Jr., and V. S. Olivas	Low tolerance positioning method in an automatic cartridge loader
5,532,937	D. L. Stanley, J. F. Hauris, and M. J. Graziano	Switching of multiple multimedia data streams
5,532,947	J. S. Muhich and T. M. Potter	Combined decoder/adder circuit which provides improved access speed to a cache
5,532,969	D. Galbi and R. J. Houghton	Clocking circuit with increasing delay as supply voltage V_{DD}
5,532,970	A. L. Sartwell, E. Butler, H. R. Shah, M. B. Lundberg, P. U. Mokashi, and R. Tamlyn	No latency pipeline
5,533,020	B. V. Patel, F. Schaffa, G. S. Delp, J. W. Byrn, K. Plotz, M. Willebeek-Lemair, and P. Leichty	ATM cell scheduler
5,533,021	A. A. Slane, G. S. Delp, J. J. Lynch, J. W. Byrn, K. G. Plotz, L. A. Sendelbach, M. W. Branstad, and P. L. Leichty	Apparatus and method for segmentation and time synchronization of the transmission of multimedia data
5,533,025	A. E. Fleek and R. O. Lamaire	Robust frequency management and acquisition in a wireless local area network that uses frequency-hopping radios
5,533,031	M. Tayefeh, P. J. Dounn, R. C. Schneider, and T. L. Kise	Adjustable read channel equalization for error processing in a recordable media drive
5,533,036	C. L. Chen, D. C. Bossen, H. L. Kalter, J. A. Fifield, and R. M. Blake	Fault tolerant computer memory systems and components employing dual level error correction and detection with disablement feature
5,533,069	A. E. Fleek, G. Warchock, M. J. Bracco, and W. O. Camp	Method and apparatus for digital frequency compensation of carrier drift in a PSK demodulator
5,533,072	C. J. Georgiou, K. W. Lee, and T. A. Larsen	Digital phase alignment and integrated multichannel transceiver employing same
5,533,125	D. Bensimon, J. Pacheco, and N. A. Osborn	Removable device security
5,533,148	J. Sayah and R. Rozwod	Method for restructuring physical design images into hierarchical data models

5,533,178	N. Megiddo	Method and apparatus for finding a line passing through axial boxes in three-space and higher dimensions
5,533,182	B. Striemer, B. J. Cragun, C. Bates, J. M. Ryan, R. J. Donovan, and W. Jaaskelainen	Aural position indicating mechanism for viewable objects
5,533,184	J. W. Malcolm	Computer system for dynamically generating display screen panels providing interactive interfaces for application program steps
5,533,189	H. Cheong and K. So	System and method for error correction code generation
5,533,194	A. D. Walls, A. G. Yanes, D. J. Albin, and K. G. Zitny	Hardware-assisted high speed memory test apparatus and method
5,533,197	D. E. Moran, K. M. Watson, and T. J. O'Gorman	Method to assess electromigration and hot electron reliability for microprocessors
5,533,205	B. G. Frey and J. W. Blackledge	Method and system for efficient bus allocation in a multimedia computer system
5,533,256	A. J. Call, F. Pompeo, J. A. Zitz, and S. Meisner	Method and apparatus for directly joining a chip to a heat sink
5,533,540	D. Stanasolovich, R. A. Warren, and W. A. Syverson	Apparatus for uniform cleaning of wafers using megasonic energy
5,533,817	K. H. Vorhees, M. J. Kinney, and R. H. Harris	Biaxial printer
5,533,889	B. D. Sewing and L. Scalia	Apparatus and method for in-situ green sheet slitting
5,534,066	J. Singh, J. A. O'Neill, J. D. Chapple-Sokol, M. L. Passow, R. Conti, and T. Cotler	Fluid delivery apparatus and method having an infrared feedline sensor
5,534,079	D. B. Beach	Supersaturated rare earth doped semiconductor layers formed by chemical vapor deposition
5,534,345	R. L. Bradshaw	Polymeric compositions containing inorganic fillers and use thereof
5,534,360	M. W. McElfresh, R. J. Gambino, T. R. McGuire, and T. S. Plaskett	Amorphous uranium alloy and use thereof
5,534,371	L. Economikos and R. S. Patel	Repaired apertured laser metal mask
5,534,466	C. Prasad, E. D. Perfecto, G. E. White, and K. H. Wong	Large area direct transfer multilayer thin film structure
5,534,662	B. P. Otis and J. L. Peacock	Chassis mounted electromagnetic interference grounding assembly for electronic modules
5,534,713	F. Stern and K. E. Ismail	Complementary metal-oxide semiconductor transistor logic using strained Si/SiGe heterostructure layers
5,534,732	E. J. Sprogis, J. Lary, and J. K. Debrosse	Single twist layout and method for paired line conductors of integrated circuits
5,534,790	B. Huynh and C. J. Masenas	Current transition rate control circuit
5,534,803	A. Correale and G. T. Hendrickson	Process insensitive off-chip driver
5,534,812	L. A. Walls, S. Dutta, T. A. Cao, T. D. Trinh, and T. Q. Nguyen	Communication between chips having different voltage levels
5,534,861	B. Iyer, C. A. Friske, C. C. Chang, D. Wilhite, G. L. Davoll, K. E. Plambeck, M. H. El-Ruby, and P. J. Lazarus	Method and system for adaptively building a static Ziv-Lempel dictionary for database compression
5,534,887	B. T. Watts, C. Bates, and J. M. Ryan	Locator icon mechanism
5,534,945	A. Edgar	System and method for providing black diffusion in video image processing
5,535,035	H. L. Truestedt, R. J. Thatcher, and S. M. Defoster	Optical fiber ring communications system and communications method
5,535,067	M. Rooke	Frequency controlled reference clock generator
5,535,073	B. Brezoczky and H. Seki	Tribo-attractive contact data storage system
5,535,100	J. A. Melville and K. E. Lubahn	Snap-together/quick-release fastening assembly for supporting a circuit card
5,535,134	J. M. Cohn and L. Heng	Object placement aid
5,535,139	C. Decusatis, D. J. Stigliani, and W. A. Barringer	Portable fiber optic splitter tool for multimode optical fiber cable link
5,535,145	C. Batarekh and D. J. Hathaway	Delay model abstraction
5,535,164	G. S. Koch, J. Connor, L. Ternullo, and R. D. Adams	BIST tester for multiple memories
5,535,187	C. M. Melas, D. Rugar, P. Sutardja, and R. Wood	Method to double the effective rate of (D,K,2) codes
5,535,188	C. H. Dang and C. T. Dang	Data security for rewritable media
5,535,192	A. D. Walker and B. S. Trubey	Serial network fault detection, isolation and restoration device
5,535,213	C. Georgiou, C. S. Li, S. Pan, T. Cheng, and W. G. Nation	Fast ring configurator for system interconnection using fully covered rings
5,535,217	H. R. Strong, K. K. Ng, and Y. M. Cheung	Method and apparatus for probabilistic clock synchronization with interval arithmetic

5,535,226	B. J. Wolford, C. E. Drake, J. A. Fifield, and R. Wheeler	On-chip E _{CC} status
5,535,242	D. J. Brigida, T. Pate, and V. S. Moore	Method and system for modem command processing during data transfer
5,535,319	D. L. Ehnebuske and R. A. Pascoe	Data stream processing hints in interchange
5,535,321	D. J. Schmidt and T. J. Massaro	Method and apparatus for variable complexity user interface in a data processing system
5,535,322	M. S. Hecht	Multimedia data processing system with improved work flow system and method
5,535,325	B. E. Nuechterlein, K. T. Cattell, S. Lin, T. E. Potok, and W. R. Cromer	Method and apparatus for automatically generating database definitions of indirect facts from entity-relationship diagrams
5,535,326	C. A. Mastrangelo, M. E. Baskey, and P. Mayer	System and method for logical console verification and feedback
5,535,333	D. Cox, J. Allen, R. Rivera-Sanchez, R. J. Cooper, T. L. Tomlinson, and W. L. McNeil	Adapter for interleaving second data with first data already transferred between first device and second device without having to arbitrate for ownership of communications channel
5,535,335	C. Lawton, D. E. Cox, J. F. Linton, J. P. Whitfield, and K. D. Gottschalk	Method and system for reporting the status of an aggregate resource residing in a network of interconnected real resources
5,535,368	M. Stember, S. L. Vanderlinden, and W. J. Ho	Automatically-configuring memory subsystem
5,535,372	D. A. Burton, J. N. McCauley, M. T. Benhase, and R. L. Morton	Method and apparatus for efficient updating of CKD data stored on fixed block architecture devices
5,535,375	C. Meyer, D. N. Jones, F. A. Schwartz, G. Hunt, and M. Eshel	File manager for files shared by heterogeneous clients
5,535,380	D. E. Carmon, J. J. Bergkvist, and M. T. Vanover	System to reduce latency for real time interrupts
5,535,389	D. B. Elder, F. W. Shackelford, H. R. Skinner, P. E. Miller, and S. P. Krosner	Business process objects with associated attributes such as version identifier
5,535,394	J. D. Choi, M. G. Burke, and P. R. Carini	Methods for distinguishing dynamically allocated storage along different call paths and for providing a compact representation for alias analysis
5,535,401	F. L. Rawson III and G. G. Sotomayor, Jr.	Method and system of power and thermal management for a data processing system using object-oriented program design
5,535,403	D. Y. Chang and S. G. Li	Method and apparatus for displaying clusters on a computer network
5,535,414	B. D. Burge	Internally shared SCSI bus in multi-media/server systems
5,535,416	G. W. Wilhelm, Jr. and J. W. Feeney	Bimodal communications device driver
5,535,422	A. Chiang and K. M. McBride	Interactive online tutorial system for software products
5,535,507	J. H. Keller, J. S. Logan, M. S. Barnes, R. E. Tompkins, R. P. Westerfield, and R. R. Ruckel	Electrostatic chuck with oxide insulator
5,535,526	L. H. White	Apparatus for surface mounting flip chip carrier modules
5,535,936	B. S. Sanghavi, C. H. Crockett, Jr., J. P. Partridge, and K. H. Chong	Fine pitch solder formation on printed circuit board process and product
5,536,388	K. G. Berridge, M. Datta, M. B. Pike, R. Shenoy, T. Kanarsky, and T. E. Dinan	Vertical electroetch tool nozzle
5,536,579	C. R. Davis, E. R. Skarvinko, and F. D. Egitto	Design of high density structures with laser etch stop
5,536,605	L. Economikos and R. S. Patel	Method of repairing apertured laser metal mask
5,536,765	K. I. Papatomas	Triazine polymer and use thereof
5,536,921	A. Viehbeck, D. Lewis, J. C. Hedrick, J. M. Shaw, and S. J. Whitehair	System for applying microwave energy in processing sheet like materials
5,537,053	A. L. Sartwell and E. P. Thoma	Data output impedance control
5,537,268	K. R. Shelley and S. L. Felde	Multi-function locking mechanism for multi-celled data cassette magazine
5,537,273	F. Hendriks and M. E. Re	Speed and skew independent, air bearing slider
5,537,330	A. D. Drumm, K. M. McCarthy, M. K. Edwards, R. F. Damiano, and R. L. Kanzelman	Method for mapping in logic synthesis by logic classification
5,537,332	B. A. Kauffmann and M. D. Bolliger	Stack macro order optimizing method
5,537,337	M. L. Williams	Playback conflict detection method and apparatus
5,537,372	D. Rugar, H. J. Mamin, and T. R. Albrecht	High density data storage system with topographic contact sensor
5,537,404	A. M. Bentley, B. E. Jongekryg, M. E. Fisher, and R. S. Nelson	Switched circuit connectioi management over public data networks for wide area networks
5,537,408	A. A. Slane, G. S. Delp, J. J. Lynch, J. W. Byrn, K. G. Plotz, L. A. Sendelbach, M. W. Branstad, and P. L. Leichty	Apparatus and method for segmentation and time synchronization of the transmission of multimedia data
5,537,417	C. Cheng, M. B. Sharma, and Y. T. Yeung	Kernel socket structure for concurrent multi-protocol access

5,537,423	C. L. Chen	Modular multiple error correcting code system
5,537,424	H. K. Thapar, J. W. Rae, P. H. Siegel, and R. Karabed	Matched spectral null codes with partitioned systolic trellis structures
5,537,425	H. H. Tsou	Parity-based error detection in a memory controller
5,537,427	C. L. Chen	Modular multiple error correcting code system
5,537,431	C. L. Chen and M. Y. Hsiao	Method and apparatus for bar code reading and decoding
5,537,476	D. S. Goodman and P. W. Coteus	Secure viewing of display units by image superposition and wavelength separation
5,537,504	G. W. Johnson, J. Trehwella, M. Cina, M. Oprysko, and M. S. Cohen	Molded plastic optical fiber-optoelectronic converter subassembly
5,537,530	A. Edgar and S. C. Penn	Video editing by locating segment boundaries and reordering segment sequences
5,537,542	B. R. Pierce and C. K. Eilert	Apparatus and method for managing server workload according to client performance goals in a client/server data processing system
5,537,567	J. T. Writz and R. E. Galbraith	Party block configuration in an array of storage devices (as amended)
5,537,574	C. Mohan, D. A. Elko, I. S. Narang, J. A. Frey, J. F. Isenberg, J. M. Nick, J. P. Strickland, and M. D. Swanson	SYSPLEX shared data coherency method and means
5,537,578	D. W. Dewey, K. F. Day, M. A. Truty, and W. T. Burke	System for recording on a rewritable optical disk
5,537,587	E. E. Kelley and N. J. Dauerer	Synchronization of menus with corresponding data files
5,537,598	D. A. Kukula and V. J. Legvold	System for installing processor control code
5,537,600	D. Fuoco, D. Moeller, E. Tashakori, E. E. Mathisen, J. H. Raymond, and L. A. Hernandez	Personal computer with alternate system controller
5,537,603	D. B. Lindquist, D. H. Gibson, G. A. Brent, and R. I. Baum	Database engine
5,537,604	D. B. Lindquist, D. H. Gibson, G. A. Brent, and R. I. Baum	Database engine
5,537,606	C. M. Byrne	Scalar pipeline replication for parallel vector element processing
5,537,607	R. R. Ploger	Field programmable general purpose interface adapter for connecting peripheral devices within a computer system
5,537,608	B. A. Beatty, C. S. Lanier, D. G. Johnson, F. J. Canova, and W. P. Whitley	Navigator application for personal communicator
5,537,617	B. Kurdi and J. M. Zavislan	Multi-channel optical head and data storage system
5,537,620	M. Breternitz, Jr.	Redundant load elimination on optimizing compilers
5,537,622	D. B. Lindquist, D. H. Gibson, G. A. Brent, and R. I. Baum	Database engine
5,537,623	A. D. Walker, D. Chamberlain, D. W. Lowther, G. A. Mirek, J. K. Lee, L. A. Sendelbach, S. J. Tipples, and V. R. Norman	Multiple group address recognition
5,537,630	B. A. Tate and R. E. Berry	Method and system for specifying method parameters in a visual programming system
5,537,635	D. G. Douglas	Method and system for assignment of reclaim vectors in a partitioned cache with a virtual minimum partition size
5,537,642	D. Glowny, J. Shih, and K. B. Washburn	Method for authenticating messages passed between tasks
5,537,645	D. W. Johnson, L. W. Henson, S. P. Morgan, and T. A. Smith	File lock management in a distributed data processing system
5,537,648	L. Liebmann, M. A. Lavin, and P. N. Sanda	Geometric autogeneration of "hard" phase-shift designs for VLSI
5,537,650	K. E. Rickard, R. J. Grupp, and R. M. West	Method and apparatus for power management in video subsystems
5,537,652	L. Gregg, L. W. Loen, R. K. Rolfe, and T. J. Friedl	Data file directory system and memory for writing data file directory information
5,537,658	B. E. Bakke, B. M. Walk, and D. F. Moertl	Distributed directory method and structure for direct access storage device (DASD) data compression
5,538,151	C. A. Whiting, K. R. Kimmel, T. B. Faure, and W. D. Pricer	Recovery of an anodically bonded glass device from a substrate by use of a metal interlayer
5,538,582	G. Natarajan, J. U. Knickerbocker, and R. J. Bezama	Apparatus and method for forming cavities without using an insert
5,538,592	B. Chen, G. B. Bronner, and S. V. Nguyen	Non-random, sub-lithography vertical stack capacitor
5,538,803	R. J. Gambino and R. J. Von Gutfeld	Multibit tag using Barkhausen effect
5,538,833	L. Liebmann, R. A. Ferguson, R. M. Martino, and T. H. Newman	High resolution phase edge lithography without the need for a trim mask
5,538,898	F. Zenhausern and H. K. Wickramasinghe	Method suitable for identifying a code sequence of a biomolecule

5,539,080	D. P. Hogan, H. Linde, and R. A. Warren	Antireflective polyimide dielectric for G, H-line imaging
5,539,154	D. Dopp, D. Harmon, D. M. Dobuzinsky, and S. V. Nguyen	Fluorinated silicon nitride films
5,539,156	I. I. Chobot, R. A. Martone, and T. B. Youngs, Jr.	Non-annular lands
5,539,186	A. Abrami, G. Di Giacomo, G. J. Gaudenzi, M. Arienzo, and P. McLaughlin	Temperature controlled multi-layer module
5,539,213	F. D. Sargent, S. W. Meeks, and T. A. Nguyen	Process and apparatus for laser analysis of surface having a repetitive texture pattern
5,539,229	A. K. Ghatalia, B. El Kareh, and W. P. Noble	MOSFET with raised STI isolation self-aligned to the gate stack
5,539,230	J. E. Cronin	Chimney capacitor and method of making the same
5,539,240	H. Landis and J. E. Cronin	Planarized semiconductor structure using subminimum features
5,539,255	J. E. Cronin	Semiconductor structure having multiple levels of self-aligned interconnection metallization, and methods for its preparation
5,539,267	A. C. Munce, H. H. Zappe, L. S. Fan, R. E. Fontana, and T. C. Reiley	Microfabricated rotary motion wobble motor and disk drive incorporating it
5,539,306	S. R. Riggio	Method and apparatus for testing electrical and electronic circuits
5,539,332	M. S. Schmookler	Adder circuits and magnitude comparator
5,539,333	N. G. Thoma, S. Dutta, T. A. Cao, T. D. Trinh, and T. Q. Nguyen	CMOS differential receiver
5,539,342	J. E. Gersbach and S. Nadeem	Low distortion memory write current head driver
5,539,369	B. Kelley, E. J. Selker, and J. M. Jacobs	Multiple-toroid induction device
5,539,394	H. P. Posey, R. H. Harris, and R. T. Cato	Time division multiplexed batch mode item identification system
5,539,478	J. J. Hurd, L. Black, R. L. Bertram, and T. K. Worthington	Video receiver display and three axis remote control
5,539,479	R. L. Bertram	Video receiver display of cursor and menu overlaying video
5,539,516	H. Heinrich and J. L. Prince	Scanning pulsed profilometer
5,539,592	D. R. Gillis, G. J. Smith, K. K. Chew, and W. K. Banks	System and method for monitoring friction between head and disk to predict head disk interaction failure in direct access storage
5,539,595	D. C. Goeke, D. E. Goodman, and R. E. Lagergren	Structure and enclosure assembly for a disk drive
5,539,596	A. C. Munce, C. D. Snyder, C. E. Yeack-Scranton, J. W. Berberich, M. A. Moser, O. J. Ruiz, and R. E. Fontana	Integrated suspension actuator arm and coil assembly
5,539,598	A. Rubio, E. V. Denison, and J. M. Schmalhorst	Electrostatic protection for a shielded MR sensor
5,539,606	K. R. Covi, S. Shevach, and W. J. Petrowsky	Electronic circuit breaker
5,539,681	A. D. Ogden and J. A. Kahle	Circuitry and method for reducing power consumption within an electronic circuit
5,539,725	A. D. Walker, B. S. Trubey, D. Bartolini, J. L. Smith, and K. T. Wilson	Post address resolution device
5,539,753	J. Connor, L. Ternullo, M. J. Robillard, and S. J. Hall	Method and apparatus for output deselecting of data during test
5,539,774	J. Karaoguz and R. A. Nobakht	Dual decision equalization method and device
5,539,808	H. A. Inniss and M. L. Williams	Method and system for enhanced processing of audio messages within a data processing system
5,539,826	C. Dwork and M. Naor	Method for message authentication from nonmalleable crypto systems
5,539,870	G. L. Haas and T. E. Conrad	Computerized system and process for interactively managing a distributed database system
5,539,871	K. P. Gibson	Method and system for accessing associated data sets in a multimedia environment in a data processing system
5,539,875	G. R. Klouda, J. Bishop, M. L. Ciacelli, P. W. Gallagher, R. D. Siegl, and S. P. Jackowski	Error windowing for storage subsystem recovery
5,539,877	A. Ribak, A. Winokur, G. Y. Huang, and Y. Shiloach	Problem determination method for local area network systems
5,539,895	C. E. Carmack, Jr., G. R. Klouda, J. Bishop, P. W. Gallagher, R. D. Siegl, and S. P. Jackowski	Hierarchical computer cache system
5,539,896	R. Lisle	Method and apparatus for dynamically linking code segments in real time in a multiprocessor computing system employing dual buffered shared memory

5,539,899	G. E. Brew, K. D. Huynh, K. W. Christopher, and M. S. Kogan	Method and system for handling a segmented program in a memory for a multitasking data processing system utilizing paged virtual storage
5,539,903	C. A. Kaplan, G. J. Wolff, and S. E. Taylor	A method and apparatus for producing a report from a query to a database based on a report format
5,539,906	B. N. Panuganti, H. Mitchell, and R. L. Abraham	Method and apparatus for controlling access to data elements in a data processing system based on status of an industrial process
5,539,908	D. M. Dorrance and F. F. Chen	System and method for providing data compression/decompression sharing and transparency
5,539,912	G. L. Clark, Jr., J. Olive, M. G. Noll, and P. Klim	Programmable program option select memory detect option
5,539,914	H. M. Torab and S. M. Fry	Method and system for preprocessing data block headers in a data storage system
5,539,915	D. A. Burton, E. J. Nauss, and Y. M. Chu	Peripheral system with channel transfer rate maximization
5,539,918	J. W. Pence, R. A. Ripberger, R. G. Long, S. M. Fry, V. K. Allen, W. Rhoten, and W. B. Harding	Adaptive data transfer channel employing extended data block capability
5,540,597	A. Wutka, J. Mosley, L. H. Massman, M. Budman, and R. V. Jenness	All flex PCMCIA-format cable
5,540,777	D. L. Wilson, J. Wong, J. A. O'Neill, J. D. Chapple-Sokol, N. Sarma, R. Conti, R. Hsiao, S. Zuhoski, and S. G. Barbee	Aluminum oxide LPCVD system
5,540,779	G. S. Andris and J. P. Gauci	Manufacture of multi-layer ceramic interconnect structures
5,540,785	B. S. Meyerson, R. Rosenberg, and R. H. Dennard	Fabrication of defect free silicon on an insulating substrate
5,541,005	D. H. Gabriels, D. R. Wall, G. Natarajan, G. V. Yen, I. Frantz, J. Thomson, J. A. Casey, J. U. Knickerbocker, K. G. Frase, L. W. Herron, M. E. Ecker, R. J. Bezama, R. M. Troncillito, S. Farooq, S. Knickerbocker, S. L. Tracy, V. Sura, and Y. Ting	Large ceramic article and method of manufacturing
5,541,130	N. Rovedo, R. C. Wong, and S. Ogura	Process for making and programming a flash memory array
5,541,145	B. V. Fasano, J. H. Harris, L. W. Herron, R. A. Youngman, S. L. Shinde, and T. Takamori	Low temperature sintering route for aluminum nitride ceramics
5,541,354	D. J. Moore and P. W. Farrett	Micromanipulation of waveforms in a sampling music synthesizer
5,541,427	B. Davari, B. A. Chappell, G. A. Sai Halasz, and Y. Taur	SRAM cell with capacitor
5,541,442	I. I. Novof, J. Oppold, K. Short, R. Keil, R. Kelkar, and S. Wyatt	Integrated compact capacitor-resistor/inductor configuration
5,541,520	R. L. Zai and S. Halevi	Filtering for electronic module test
5,541,534	L. A. Walls, S. Dutta, T. A. Cao, T. D. Trinh, and T. Q. Nguyen	Mixed voltage interface converter
5,541,535	L. A. Walls, S. Dutta, T. A. Cao, T. D. Trinh, and T. Q. Nguyen	CMOS simultaneous transmission bidirectional driver/receiver
5,541,537	K. J. Lin and S. C. Kim	High speed static circuit design
5,541,545	G. R. Castellucci	High speed bipolar D latch circuit with reduced latch clocking output corruption
5,541,567	A. Viehbeck, D. Lewis, E. E. Simonyi, J. C. Hedrick, K. E. Fogel, and S. J. Whitehair	Coaxial vias in an electronic substrate
5,541,881	C. P. Miller	High gain feedback latch
5,541,887	S. H. Dhong, T. Kiriata, and W. Hwang	Multiple port cells with improved testability
5,541,897	C. H. Dang, C. T. Dang, F. A. Baca, R. L. Bingham, and Z. F. Hudson	Double disk storage multi-carousel library
5,541,941	J. G. Foster and T. E. Dell	Method and structure for providing error correction code and automatic parity sensing
5,542,026	G. G. Pechanek and S. Vassiliadis	Triangular scalable neural array processor
5,542,039	K. O. Brinson, N. Sappal, and W. E. Galella	Control for scaled parameters
5,542,040	D. Y. Chang and S. G. Li	Display of dynamic data as a notebook
5,542,046	B. A. Carlson, F. L. Huss, N. M. Schmucki, and R. E. Zelenski	Server entity that provides secure access to its resources through token validation (as amended)
5,542,048	E. Upfal, H. T. Olnowich, J. Bruck, and J. W. Feeney	Increasing probability multi-stage network

5,542,053	D. Cronin, D. Moeller, L. M. Venarchick, P. M. Bland, and R. G. Hofmann	A bridge interface between two buses of a computer system with a direct memory access controller programmed by a scatter/gather programmer
5,542,055	K. Yamauchi and N. Amini	Method and apparatus for initializing multiple bus networks in an information handling system
5,542,066	J. M. Menon and R. L. Mattson	Destaging modified data blocks from cache memory
5,542,067	B. A. Chappell, K. Ebcioglu, S. E. Schuster, and T. I. Chappell	Virtual multi-port RAM employing multiple accesses during single machine cycle
5,542,073	A. N. Swami and K. B. Shiefer	Computer program product for choosing largest selectivities among eligible predicates of join equivalence classes for query optimization
5,542,075	E. Kronstadt, K. Ebcioglu, and M. Kumar	Method and apparatus for improving performance of out of sequence load operations in a computer system
5,542,089	B. G. Lindsay and E. J. Shekita	Method and apparatus for estimating the number of occurrences of frequent values in a data set
5,542,152	D. Crompton, G. D. Hufford, H. G. Leonard, J. D. Thomas, and R. H. Harris	A shaft assembly for a tilt adjustment mechanism
5,542,175	A. Bhatt, G. A. Hackett, J. McKeveny, and T. P. Duffy	Method of laminating and circuitizing substrates having openings therein
5,542,601	J. E. Zdimal, K. M. Fallon, and M. A. Jimarez	Rework process for semiconductor chips mounted in a flip chip configuration on an organic substrate
5,542,602	C. G. Woychik, G. M. Phelan, K. I. Papathomas, and M. Gaynes	Stabilization of conductive adhesive by metallurgical bonding
5,543,032	M. Datta and R. Shenoy	Electroetching method and apparatus
5,543,184	D. K. Coultas, J. C. Forster, J. H. Keller, and M. S. Barnes	Method and apparatus for reducing particulates in a plasma tool through steady state flows
5,543,584	E. Handford, J. M. Harvilchuck, M. J. Interrante, R. A. Jackson, R. N. Master, S. K. Ray, T. A. Wassick, and W. E. Sablinski	Novel method and structure for repairing electrical lines
5,543,585	J. Zalesinski, J. M. Roldan, M. Gaynes, R. B. Booth, R. F. Saraf, R. M. Murcko, and V. Puligandla	Direct chip attachment (DCA) with electrically conductive adhesives
5,543,589	A. Tizzard and B. G. Utley	Touchpad with dual sensor that simplifies scanning
5,543,632	D. J. Ashley	Temperature monitoring pilot transistor
5,543,650	M. H. Tong and W. M. Au	An electrostatic discharge protection circuit employing a MOSFET device
5,543,657	H. Shaukatullah and S. J. Diffenderfer	Single layer leadframe design with groundplane capability
5,543,660	E. J. Dombroski	Stackable vertical thin package/plastic molded lead-on-chip memory cube
5,543,726	J. C. Lo, J. E. Boyette, and M. Servedio	Open frame gantry system
5,543,731	J. D. Warnock and L. J. Sigal	Dynamic and preset static multiplexer in front of latch circuit for use in static circuits
5,543,735	T. Lo	Method of controlling signal transfer between self-resetting logic circuits
5,543,787	G. McVicker, H. Agata, J. P. Karidis, K. Nakada, and M. Goldowsky	Keyboard with translating sections
5,543,791	S. R. Riggio	A non-volatile parallel-to-serial converter system utilizing thin-film, floating gate, amorphous transistor
5,543,792	G. Vega-Toro, L. Lachman, and W. J. Johnson	Method and apparatus to enhance the efficiency of storing digitized analog signals
5,543,820	A. Edgar	Method and apparatus for linear color processing
5,543,918	D. Abraham and D. C. Wong	Through-the-lens confocal height measurement
5,543,953	D. Steinberg and K. Sivarajan	Servo control mechanism with wide input dynamic range and fast response
5,543,963	C. J. Freedenberg, F. A. Herring, and U. A. Ziemins	Variable magnification laser imaging system
5,543,983	C. G. Keller, J. A. Hagan, and T. A. Gregory	Servo controlled lubricant thickness for near contact magnetic recording
5,543,986	T. R. Albrecht	Disk drive with shock-resistant rotary actuator
5,543,988	L. Krusin-Elbaum, M. J. Brady, P. Santhanam, T. Tamegai, and W. T. Masselink	Hall sensor with high spatial resolution in two directions concurrently
5,543,989	J. D. Westwood	Multilayered sendust films utilizing gas doping and optimized sendust seed layers
5,543,993	A. Argumedo and K. R. Shelley	Door opening mechanism for magnetic tape cartridge with tension control
5,544,008	G. A. Fitterer, J. A. Jajowka, J. R. Rasmussen, R. F. Dimmick, T. L. Sobotta, and W. F. Otto	Computer expansion module apparatus

5,544,047	W. D. Appel	Reflected wave compensation on high speed processor card
5,544,048	G. Fitzpatrick, M. L. Williams, P. Dugan, and W. J. Johnson	Method and apparatus for marking text
5,544,077	P. C. Hershey	High availability data processing system and method using finite state machines
5,544,088	C. Selinger, D. A. Haeussler, G. M. Salem, H. J. Broker, K. Beyzavi, M. Aubertine, M. Herasimtschuk, M. A. Granato, M. J. Jurkovic, P. R. Zehr, and R. P. Checca	Method of I/O pin assignment in a hierarchical packaging system
5,544,112	J. M. Poplawski and M. Kumar	Word line driver circuit
5,544,138	C. H. Bajorek, C. R. Nielsen, D. A. Thompson, G. J. Smith, G. R. Santana, K. B. Klaassen, M. L. Workman, and T. W. Glaser	Adaptive system for optimizing disk drive power consumption
5,544,162	M. Tsao and R. Mraz	IP bridge for parallel machines
5,544,173	D. Meltzer	Delay test coverage without additional dummy latches in a scan-based test design
5,544,256	D. M. Parisi, M. Sturzenbecker, P. B. Chou, R. Rao, R. W. Hall, S. L. Riley, and V. H. Brecher	Automated defect classification system
5,544,257	D. Nahamoo, E. Bellegarda, J. Bellegarda, and K. Nathan	Continuous parameter hidden Markov model approach to automatic handwriting recognition
5,544,260	C. C. Tappert and T. E. Chefalas	Silent training by error correction for on-line handwriting recognition systems
5,544,261	D. Nahamoo, J. Bellegarda, and K. Nathan	Automatic handwriting recognition using both static and dynamic parameters
5,544,264	D. Nahamoo, J. Bellegarda, and K. Nathan	Automatic handwriting recognition using both static and dynamic parameters
5,544,277	A. J. Nadas, D. Kanevsky, D. Nahamoo, J. Sedivy, M. A. Picheny, P. S. Gopalakrishnan, and R. Bakis	Speech coding apparatus and method for generating acoustic feature vector component values by combining values of the same features for multiple time intervals
5,544,285	A. T. Tuckey-Smith, H. J. Glaser, and J. M. Strain	Graphical user interface control for replicating data fields in forms
5,544,288	C. A. Swearingen, S. A. Morgan, and S. S. Stone	Object resizing and repositioning for a new font in a graphical user interface
5,544,304	M. B. Greco, M. J. Meadows, and W. C. Carlson	Fault tolerant command processing
5,544,309	J. J. Cazzolla, K. D. Nguyen, and L. L. Chang	Data processing system with modified planar for boundary scan diagnostics
5,544,313	H. Shachnai, J. Wolf, and P. S. Yu	Baton passing optimization scheme for load balancing/configuration planning in a video-on-demand computer system
5,544,316	C. S. Claussen, E. R. Carpenter, and J. O. Cox	Method and system for optionally registering a local process to allow participation in a single system semantic
5,544,324	G. S. Denny, H. M. Nguyen, J. F. Murphy, M. N. Ziebarth, R. S. Lai, and S. H. Li	System and method for generating messages for use in transaction networks
5,544,327	A. Dan and D. Sitaram	Load balancing in video-on-demand servers by allocating buffer to streams with successively larger buffer requirements until the buffer requirements of a stream can not be satisfied
5,544,333	G. Tsao and G. R. Frazier	Method and apparatus for identifying devices on a bus
5,544,334	M. G. Noll	Method to adapt the IDE hardfile interface to run in a micro channel environment
5,544,338	D. C. Forslund	Three-dimensional camera image data processor
5,544,342	M. E. Dean	System and method for prefetching information in a processing system
5,544,345	G. M. Dearing, J. M. Nick, J. P. Strickland, K. Carpenter, M. D. Swanson, and W. W. Wilkinson	Coherence controls for store-multiple shared data coordinated by cache directory entries in a shared electronic storage
5,544,346	B. F. Boury, N. Amini, R. Horne, S. Brannon, and T. J. Lohman	Data processing system including a bus interface unit preventing access to a bus by other devices in response to changing data
5,544,349	M. R. Fortin and R. F. Berry	Method and system for improving the performance of memory in constrained virtual memory environments by reducing paging activity
5,544,353	H. H. Madduri and I. R. Forman	A distributed processing object shared resource control apparatus and method
5,544,530	C. A. Rudisill, E. J. Selker, and J. D. Rutledge	Assembly suitable for life testing a multi-dimensional force
5,544,554	T. J. Brightly	Ergonomic torque wrench mounting
5,544,775	A. C. Tam, D. Krajnovich, M. V. Kulkarni, R. Kerth, and W. P. Leung	Laser machined slider
5,545,307	A. F. Renaldo, D. R. McKean, R. J. Wilson, and S. K. Doss	Process for patterned electroplating

5,545,429	C. J. Sambucetti, E. A. Giess, E. I. Cooper, J. M. Roldan, M. Kordus, R. Saraf, R. B. Booth, S. Krongelb, and S. P. Ostrander	Fabrication of double side fully metallized plated thru-holes, in polymer structures, without seeding or photoprocess
5,545,465	G. D. Oxx, Jr., J. Zalesinski, M. Gaynes, and M. V. Pierson	Application of bonding agents for interconnection of components to carriers
5,545,478	C. S. Gudeman, G. Vurens, J. S. Foster, and L. J. Lin	Process for bonding lubricants to a thin film storage media
5,545,509	C. G. Willson, C. P. Niesert, J. F. Cameron, J. M. Frechet, M. K. Leung, and S. A. MacDonald	Photoresist composition with photosensitive base generator
5,545,581	C. W. Koburger, J. Lasky, J. H. Givens, and M. Armacost	Plug strap process utilizing selective oxide and nitride etches
5,545,583	C. H. Lam, D. K. Lord, and J. Wright	Semiconductor trench capacitor cell having a buried strap
5,545,590	T. Licata	Conductive RIE-resistant collars for studs beneath RIE-defined wires
5,545,902	H. C. Pfeiffer and W. Stickel	Electron beam lithography system
5,545,921	A. J. Gregoritsch, E. J. White, F. Froebel, H. W. Conru, J. G. Pohl, R. R. Uttecht, S. Starr, and S. C. Rieley	Personalized area leadframe coining of half etching for reduced mechanical stress at device edge
5,545,927	E. D. Perfecto, G. E. White, M. S. Farooq, and S. Kaja	Capped copper electrical interconnects
5,545,978	D. Pontius	Bandgap reference generator having regulation and kick start circuits
5,546,012	B. C. Pickering, C. H. Perry, D. C. Long, P. C. Vittori, and T. L. Bauer	Probe card assembly
5,546,013	L. C. Jenkins, R. J. Polastre, R. L. Wisnieff, R. R. Troutman, S. Kimura, and Y. Ichioka	An array tester for determining contact quality and line integrity in a TFT/LCD
5,546,052	D. E. Strayer, I. I. Novof, J. S. Austin, and S. Wyatt	Phase locked loop circuit with phase/frequency detector which eliminates dead zones
5,546,080	A. Zandi and G. G. Langdon	Order-preserving, fast-decoding arithmetic coding and compression method and apparatus
5,546,254	H. S. Gill	Planar orthogonal MR read head
5,546,321	C. S. Chang, D. Gernhart, K. Ho, L. J. Shaffer, P. A. Hartley, R. A. Martone, R. D. Schoening, R. J. Haskins, R. T. Mulcahy, S. Desai, and S. A. Versprille	Method and apparatus for the cross-sectional design of multi-layer printed circuit boards
5,546,322	B. E. Osborn and G. Gifford	Method and system for analyzing plasma data
5,546,325	D. C. Bogdan, D. L. Pearl, D. T. Pribula, G. W. Hutt, M. I. Hussain, and N. R. Aulet	Automated system, and corresponding method, for testing electro-optic modules
5,546,329	J. M. Kurtzberg and M. Levanoni	Evaluation and ranking of manufacturing line non-numeric information
5,546,336	G. G. Pechanek and S. Vassiliadis	Processor using folded array structures for transposition memory and fast cosine transformer computation
5,546,366	C. H. Dang	Recordable media cartridge picker assembly and library
5,546,391	M. M. Denneau and P. H. Hochschild	A central shared queue based time multiplexed packet switch with deadlock avoidance
5,546,408	B. Keller	Hierarchical pattern faults for describing logic circuit failure mechanisms
5,546,475	G. Taubin, J. H. Connell, N. Haas, R. Mohan, and R. M. Bolle	Produce recognition system
5,546,505	J. D. Henckel, J. P. Bigus, P. A. Hospers, and S. M. Austvold	Program product for facilitating use of a neural network
5,546,519	R. E. Berry	System and method for visually programming iteration
5,546,520	J. H. Werner, R. L. Poston, S. H. Isensee, and T. L. Cline	Method, system, and memory for modifying windows
5,546,521	A. E. Martinez	Dynamic presentation of contextual help and status information
5,546,524	A. C. Chow and J. S. Wang	Method and apparatus for interlocking graphical objects
5,546,526	S. G. Li and T. J. Shrader	Reconfiguration of database by interactive manipulation of icons
5,546,527	G. Fitzpatrick and T. R. Haynes	Overriding action defaults in direct manipulation of objects on a user interface by hovering a source object
5,546,545	S. Rich	Rotating priority circuit
5,546,549	A. J. Stagg, L. Barrett, L. D. Long, L. F. Menditto, and R. E. Ward	Improved channel interfaces for computer input/output channels
5,546,557	R. A. Ripberger, R. S. Goncharsky, and V. K. Allen	Storing and managing plural logical volumes in each of several physical tape volumes including automatically creating logical volumes in a peripheral data storage subsystem

5,546,568	J. Joshi, J. Kardach, P. M. Bland, and R. Jackson	CPU clock control unit
5,546,570	J. McPherson, M. H. Pirahesh, and T. Truong	An evaluation strategy for execution of SQL queries involving recursion and table queues
5,546,573	D. F. Obermann and M. K. Trumble	Specification of cultural bias in a database manager
5,546,576	M. H. Pirahesh, R. J. Cochrane, and R. S. Sidle	Query optimizer system that detects and prevents mutating table violations of database integrity in a query before execution plan generation
5,546,577	A. F. Stuart, J. W. Marlin, R. L. Knudson, T. Hughes, and T. M. Ruehle	Utilizing instrumented components to obtain data in a desktop management interface system
5,546,579	I. S. Narang, J. W. Josten, J. Z. Teng, and T. L. Mukai	Page refreshing procedure using two locking granularities to ensure cache coherency in a multisystem database processing environment having a high-speed shared electronic store
5,546,582	D. E. House, E. Jenner, M. G. Mall, M. K. Labelle, R. Dievendorf, R. L. Brockmeyer, and S. L. Silen	Method and apparatus for committing updates in a distributed data processing system
5,546,583	D. I. Shriver	Method and system for providing a client/server interface in a programming language
5,546,599	S. P. Song	Processing system and method of operation
5,547,396	G. M. Jordhamo	Use of semi-interpenetrating polymer networks for cable/fiber retention
5,547,713	J. M. Alvarado, J. P. Kuczynski, and K. Covert	Dual core epoxy backseal formulation
5,547,812	E. A. Puttlitz, G. T. Spinillo, J. Dorn, J. P. Collins, J. T. Fahey, L. L. Linehan, R. J. Smith, W. J. Miller, and W. M. Moreau	Resin composition for elimination of microbridging in CaMn photoresists
5,547,894	D. Galbi, J. A. Mandelman, J. A. Slinkman, and W. R. Tonti	CMOS processing with low and high-current FETs
5,548,148	A. Bindal	MOS channel device with counterdoping of ion implant for reduced substrate sensitivity
5,548,195	S. K. Doran	Compensated servo control stage positioning apparatus
5,548,237	J. A. Iadanza and M. Ueda	Process tolerant delay circuit
5,548,340	R. L. Bertram	Diversions for television viewers
5,548,452	A. R. Bonaccio	Quad burst servo demodulator with adjustable slew rate for hard disk drives
5,548,457	D. Glaess and P. E. Brooks	Disk drive disk stack clamp
5,548,467	J. A. Heaney and T. M. Rasmus	LAN interface with simplified overcurrent protection
5,548,470	A. Haussin, A. J. Ricci, D. E. Kotecki, G. Lassig, and K. Olson	Characterization, modeling, and design of an electrostatic chuck with improved wafer temperature uniformity
5,548,486	J. A. Stubecki, S. J. Kman, and W. R. Sondej	Pinned module
5,548,507	M. J. Martino and R. C. Paulsen	Language identification processing using coded language words
5,548,518	B. L. Dietrich and R. J. Wittrock	Allocation method for generating a production schedule
5,548,529	B. Kamenster, B. A. Smith, and E. T. Selker	Force transducer with screen printed strain gauges
5,548,544	D. T. Matheny, M. P. Taborn, and P. K. Miller	Method and apparatus for rounding the result of an arithmetic operation
5,548,572	J. A. McDowell, J. E. Kulakowski, and K. A. Rubin	Spare and calibration sector management for optical worm media
5,548,600	H. K. Thapar, L. J. Fredrickson, P. H. Siegel, and R. Karabed	Method and means for generating and detecting spectrally constrained coded partial response waveforms using a time varying trell
5,548,623	D. Casper, D. W. Westcott, G. Salyer, and T. A. Gregg	Null words for pacing serial links to driver and receiver speeds
5,548,702	S. G. Li and T. J. Shrader	Scrolling a target window during a drag and drop operation
5,548,703	D. J. Roberts, R. E. Berry, and S. F. Henshaw	Navigation within a compound graphical object in a graphical user interface
5,548,715	J. M. Swenton, R. M. Mesnard, and W. B. Maloney	Analysis of untestable faults using discrete node sets
5,548,731	G. Joyce, K. Chang, L. E. Hall, L. W. Russell, and P. D. Mazzurana	Method and apparatus for exchanging data between varying devices and software entities independent of operating system type and device type
5,548,735	G. Tsao, S. M. Thurber, and W. T. Chen	System and method for asynchronously processing store instructions to I/O space
5,548,737	A. P. Jensen, J. Edrington, M. A. Einkauf, and M. T. Vanover	Dynamic load balancing for a multiprocessor pipeline by sorting instructions based on predetermined execution time
5,548,738	S. P. Song	System and method for processing an instruction in a processing system
5,548,746	G. D. Carpenter, H. C. Tanner, J. C. Peterson, M. Faucher, and M. E. Dean	Non-contiguous mapping of I/O addresses to use page protection of a process

5,548,747	J. Rudolph	Bit stack wiring channel optimization with fixed macro placement and variable pin placement
5,548,754	D. Simmen, E. Shekita, G. Lohman, M. H. Pirahesh, and T. Y. Leung	Optimization of SQL queries using early-out join transformations
5,548,755	M. H. Pirahesh, P. Seshadri, and T. Y. Leung	System for optimizing correlated SQL queries in a relational database using magic decorrelation
5,548,758	D. Simmen, E. Shekita, G. Lohman, M. H. Pirahesh, and T. Y. Leung	Optimization of SQL queries using early-out join transformations of column-bound relational tables
5,548,761	J. Ferrante, J. L. Carter, and V. Balasundaram	A compiler for target machine independent optimization of data movement, ownership transfer, and device control
5,548,763	D. T. Crump, J. L. Combs, and S. Pancoast	Multi-level power management for desktop systems
5,548,769	D. B. Lindquist, D. H. Gibson, G. A. Brent, and R. I. Baum	Database engine
5,548,775	P. C. Hershey	System and method for adaptive active monitoring of high speed data streams using finite state machines
5,548,785	M. Sweet and R. G. Fogg, Jr.	FIFO host interface for a logic simulation machine
5,548,786	B. F. Boury, I. A. Concilio, N. Amini, R. G. Hofmann, S. Brannon, and T. J. Lohman	Dynamic bus sizing of DMA transfers
5,548,791	D. Casper, M. Halma, S. G. Glassen, and S. K. Ryan	Input/output control system with plural channel paths to I/O devices
5,548,797	J. D. Lewis, J. S. Dodson, and R. K. Arimilli	Method and apparatus for remote retry in a data processing system
5,548,981	R. D. Kirk	Lock assembly for a personal computer system enclosure
5,549,511	J. E. Cronin and M. J. Rutten	Chemical mechanical polish: polish table control
5,549,808	E. D. Perfecto, G. E. White, M. S. Farooq, and S. Kaja	Method for forming capped copper electrical interconnects
5,549,935	G. S. Oehrlein, T. N. Nguyen, and Z. A. Weinberg	Adhesion promotion of fluorocarbon films
5,550,351	D. L. Ferguson and N. DiPaolo	Process and apparatus for contamination-free processing of semiconductor parts
5,550,483	A. R. Taheri, J. A. Mahlbacher, J. C. Lo, J. E. Boyette, J. M. Hammond, and M. Servedio	High speed test probe positioning system
5,550,488	J. A. Fifield and L. G. Heller	Self timed driver
5,550,490	C. M. Durham, S. A. Shah, and V. R. Kodali	Single-rail self-resetting logic circuitry
5,550,540	D. S. Sheinwald, G. Furlan, and J. Rissanen	Distributed coding and prediction by use of contexts
5,550,547	A. Krishna, D. D. Kandlur, H. Heinrich, and S. S. Chan	Multiple item radio frequency tag identification protocol
5,550,559	R. L. Poston and S. H. Isensee	Method and apparatus for locating a point in a list
5,550,564	B. J. Cragun	A self cleaning touch screen display mechanism
5,550,688	A. Aoyagi, M. Sri-Jayantha, S. Kumar, V. D. Khanna, and Z. E. Boutaghou	Crash stop shock ring for the protection of disk drive motor bearings
5,550,689	L. A. Cossette, R. W. Luoma, and Z. E. Boutaghou	Magnetic fluid seal and ground path for low profile disk drives
5,550,690	D. W. Johnson, R. J. Bornhorst, and Z. E. Boutaghou	Resilient compliant clamp for data storage disk drives
5,550,693	F. Hendriks and M. P. Robert	Air bearing slider having projections that provide minimal actual contact area
5,550,696	T. A. Nguyen	Magnetic recording disk having textured test band for controlling texture in the slider landing zone
5,550,767	M. P. Taborn	Method and apparatus for detecting underflow and overflow
5,550,768	C. R. Ogilvie and P. C. Stabler	Rounding normalizer for floating point arithmetic operations
5,550,806	B. L. Brech, G. S. Delp, J. W. Byrn, M. W. Branstad, and R. M. Montalvo	System and method for management of a communications buffer
5,550,873	D. Dolev, H. R. Strong, and R. Reischuk	Anonymous time synchronization method
5,550,966	A. D. Grier, J. G. Thomas, J. T. Powers, Jr., and S. Drake	Automated presentation capture, storage and playback system
5,550,968	R. J. Redpath and S. M. Miller	Method and system for providing access security to controls in a graphical user interface (GUI)
5,550,970	R. L. Poston, S. H. Isensee, and T. L. Cline	Method and system for allocating resources
5,550,973	H. H. Madduri and I. R. Forman	System and method for failure recovery in a shared resource system having a moving write lock
5,550,989	G. N. Santos	Bridge circuit that can eliminate invalid data during information transfer between buses of different bitwidths

5,550,990	A. B. McNeill, D. S. Keener, E. I. Wachtel, K. L. Scheiern, R. W. Voorhees, and T. H. Newsom	Physical partitioning of logically continuous bus
5,550,991	D. S. Keener, G. J. Moore, and R. W. Voorhees	Personal computer data flow control
5,551,003	J. M. Menon and R. L. Mattson	Method and means for managing a log structured DASD array using write age separation and read activity clustering
5,551,009	B. F. Boury, N. Amini, S. Brannon, and T. J. Lohman	Expandable high performance FIFO design
5,551,013	H. R. Palmer, T. Ng, and W. F. Beausoleil	Multiprocessor for hardware emulation
5,551,027	C. Mohan and D. M. Choy	Multi-tiered indexing method for partitioned data
5,551,030	F. B. Schmuck, J. Reinke, and T. Linden	Method and apparatus for integrating applications in a graphical user interface environment
5,551,031	C. Mohan, J. M. Cheng, and M. H. Pirahesh	Methods for efficient execution of outer join operations
5,551,032	L. E. Lyon and R. L. Teed	Method for file transfer
5,551,038	A. R. Martin	Directory based computer environment
5,551,043	D. T. Crump, L. Steelman, P. H. Benson, and S. Pancoast	Standby checkpoint to prevent data loss
5,551,046	C. Mohan and I. S. Narang	Method for non-hierarchical lock management in a multi-system shared data environment