

Recent IBM patents

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

Canada

2,124,028	D. K. Smith	Directional actuator for electronic media navigation
2,166,257	M. H. Li and S. J. Limoges	Call level interface to embedded static SQL
2,212,354	J. W. Benayon and G. W. Ewart	Method for HEAP management of fixed sized objects using pages

Germany

715,251	D. E. Staiger	One cycle processor for real time processing
19,723,862.9	H. R. Bublitz, S. G. Lee, and A. R. Newth	Mobile data carrier for security modules
69,517,705.2	U. Bandara, S. Kunzmann, B. Lewis, and K. Mohr	Methods to squeeze the language model size under retention of recognition accuracy of a speech recognizer

Japan

3,072,707	M. Ikezak, M. Kodate, and T. Koike	Gate line design against ESD damage
3,072,708	T. Fukuda, Y. Morimoto, S. Morishita, and T. Tokuyama	Dual association rule between a 0-1 valued attribute and a numerical attribute and its efficient
3,072,719	Y. Kigami and T. Kuroda	Controller for the data sector written with different frequency
3,072,721	N. Nemoto and H. Takahashi	Fast image processing
3,074,640	Y. Kimura, H. Nakamura, K. Sueoka, and Y. Taira	Driving method for TFT LCD using optically compensated birefringence (OCB) display mode
3,074,649	I. Shohji	Mechanical milling solder paste
3,075,505	A. Fukushima, M. Kobayashi, and Y. Takeda	Selective local flicker free method for multimedia PC output on TV
3,077,897	T. R. Albrecht, V. Khanna, S. Kumar, M. Sri-Jayantha, and K. Takahashi	BT-directional lever latch
3,078,946	H. Nijijima and T. Toyooka	The cluster information sector for block-erase flash EEPROM
3,079,027	Y. Naitoh	Two-step etching for ultra fine patterning
3,079,079	T. Asahata, H. Hatori, and E. Tazoe	Transforming GUI to window activation
3,080,362	T. Chawanya, Y. Katoh, K. Satoh, and S. Tsuda	Structure of outer crash stop with high shock absorbability
3,080,363	Y. Aoki, K. Ogasawara, F. Sai, H. Uchiike, S. Ueno, and I. Yoneda	Valid AD range calibration method for actuator loading
3,080,364	K. Arai, H. Asano, H. Ohzeki, K. Okada, and T. Ueda	Servo control method for high offset element
3,083,742	K. Musashi	New method for calculation of irregular spread sheet
3,083,748	N. Iuchi, K. Kawai, T. Nishimura, and Y. Tahara	User defined character management by pre-combined font
3,083,779	Y. Matsumura	Movable magnet actuator lock
3,083,805	F. Ando, Y. Aoki, and A. Nakajima	Web operation player and recorder

3,085,456	K. Takahashi, D. W. Albrecht, and K. Serizawa	Double angle ramp
3,085,631	M. Okochi and T. Saito	A rule-based speech synthesis method using Fuzokugo sequence units

Switzerland

748,542	W. Hirt	Method and apparatus for optical wireless communication
889,975	F. Arrouy, G. Bednorz, H. Berke, E. Fritsch, J. R. Huber, J. P. Locquet, and E. Maechler	Deposition method and precursor therefor

United Kingdom

697,780	D. G. Martin and L. L. Porter	Voice response system
2,316,264	G. Boydell and D. J. Byford	Billing for low-cost transactions via the Internet

United States

5,977,787	C. Perry, D. McHerron, F. Taber, G. Das, M. LaForce, P. Gaschke, and S. Hegde	Large area multiple-chip probe assembly and method of making the same
5,977,801	D. W. Boerstler	Self-resetting phase/frequency detector with reduced dead zone
5,977,813	D. W. Boerstler	Temperature monitor/compensation circuit for integrated circuits
5,977,837	B. Schuelke, C. B. McBride, and J. W. Byrn	Phase selector for external frequency divider and phase locked loop
5,977,889	N. H. Cohen	Optimization of data representations for transmission or storage using differences from reference data
5,977,890	A. Floratos and I. Rigoutsos	Method and apparatus for data compression utilizing efficient pattern discovery
5,977,947	B. Potu	Method and apparatus for resizing block ordered video image frames with reduced on-chip cache
5,977,952	L. D. Francis	Method and system for an ambidextrous mouse
5,977,969	M. F. DiAngelo	Universal resource locator dialog with extended top level domains
5,977,970	H. Y. Amro and J. P. Dodson	Method and apparatus for moving information displayed in a window
5,977,972	C. Bates and P. R. Day	User interface component and method of navigating across boundary coupled to a scroll bar display element
5,977,979	J. D. Jones, S. J. Clough, and T. M. Wood	Simulated three-dimensional display using bit-mapped information
5,977,989	D. J. Rumph and W. R. Lee	Method and apparatus for synchronizing video and graphics data in a multimedia display system including a shared frame buffer
5,978,029	A. Y. Ngai, B. A. Hall, C. E. Boice, J. M. Kaczmarczyk, and S. P. Pokrinchak	Real-time encoding of video sequence employing two encoders and statistical analysis
5,978,163	E. A. Cunningham	Circuit and method for optimizing bias supply in a magnetoresistive head based on temperature
5,978,183	H. A. Santini, R. Hsiao, and T. Lin	High resolution lead to shield short-resistant read head
5,978,215	G. L. Chiu, L. S. Mok, and T. M. Cipolla	Computer bottom keyboard incorporating arrangement for enhanced cooling
5,978,217	B. Kerrigan, J. W. Young, and L. T. Cooper	Cooling air diffuser for computer enclosure
5,978,223	R. D. Hamilton and S. S. Kang	Dual heat sink assembly for cooling multiple electronic modules
5,978,281	D. L. Anand and R. Tamlyn	Method and apparatus for preventing postamble corruption within a memory system
5,978,291	T. Kiriata	Sub-block redundancy replacement for a giga-bit scale DRAM
5,978,335	A. R. Clark, G. A. Jaquette, and R. A. Hutchins	Integrated calibration apparatus for a multi-mode information storage system
5,978,384	C. M. Kotchey	Introducing inter-packet gaps in network transmissions
5,978,493	E. R. Palmer and J. K. Kravitz	Identification bracelet for child and guardian matching
5,978,501	B. J. Grenon, D. S. O'Grady, J. G. Smolinski, and K. Badger	Adaptive inspection method and system
5,978,580	F. T. Sharp, I. A. Wang, J. Ng, and J. Sidik	Passing arrays to stored procedures
5,978,583	J. Moreira, K. Ekanadham, and V. K. Naik	Method for resource control in parallel environments using program organization and run-time support
5,978,751	D. D. Pence and J. F. Raley	Variegated manufacturing process test method and apparatus
5,978,785	D. D. Koski, T. A. Shore, and V. M. Johnson	Object oriented case-based reasoning framework mechanism
5,978,788	A. Jhingran, C. S. Li, J. T. Robinson, and V. Castelli	System and method for generating multi-representations of a data cube

5,978,792	B. Iyer, F. L. Lin, G. Bhargava, H. S. Tie, J. Mukai, P. Goel, P. Hoa, P. S. Desai, and W. S. Perlman	Method and apparatus for generating dynamic and hybrid sparse indices for workfiles used in SQL queries
5,978,794	K. Shim, R. Agrawal, and R. Srikant	Method and system for performing spatial similarity joins on high-dimensional points
5,978,796	C. Tomlyn, G. Robinson, and W. E. Malloy	Mapping dense data blocks to rows in a relational database
5,978,813	J. V. Meegan, R. C. Foltz, S. A. Wadood, and S. L. Lin	System for providing synchronization between a local area network and a distributing computer environment
5,978,819	V. Berstis	Automatically converting preformatted text into reflowable text for TV viewing
5,978,832	M. J. Sirkin	Time to completion determination in a multitasking workstation
5,978,848	G. F. McBrearty, J. J. Maddalozzo, and J. M. Shieh	Web browser method and system for backgrounding a link access during slow link access time periods
5,978,849	S. Khanna	Systems, methods, and computer program products for establishing TCP connections using information from closed TCP connections in time-wait state
5,978,867	D. E. Carmon, F. E. Grieco, and L. B. Marshall	System for counting clock cycles stolen from a data processor and providing the count value to a second processor accessing the data processor cycle resources
5,978,869	D. Neal, G. L. Guthrie, R. A. Kelley, and S. M. Thurber	Enhanced dual speed bus computer system
5,978,871	D. E. Williams, J. D. Lewis, J. S. Dodson, and R. K. Arimilli	Method of layer cache and architectural specific functions for splitting operations
5,978,896	A. D. Ogden, C. C. Kau, D. S. Levitan, and J. A. Kahle	Method and system for increased instruction dispatch efficiency in a superscalar processor system
5,978,916	G. W. Randall	Method, system and computer program product for updating region-dependent software using a common update module for multiple regions
5,978,929	H. Pilo and J. J. Covino	Computer unit responsive to difference between external clock period and circuit characteristic period
5,978,931	G. Daniel, J. M. Dortu, K. P. Pfefferl, and T. Kiriata	Variable domain redundancy replacement configuration for a memory device
5,978,936	A. Chandra, D. C. Bossen, and N. Tendolkar	Run time error probe in a network computing environment
5,978,938	J. M. Kaiser and W. E. Maule	Fault isolation feature for an I/O or system bus
5,979,814	E. R. Childers	Invertible portable container having two separate lengths of recording tape
5,980,275	C. H. Shempert, D. P. Beaman, and Y. H. Ng	Electronic circuit board interface mounting bracket
5,980,281	C. N. Ramirez, D. Neal, J. R. Taylor, and W. D. Scott	Mechanism to assist in insertion or removal of PCI cards
5,980,324	D. P. Gaio, J. Berg, and W. K. Hogan	Guide rail system with integrated wedge connector for removable transceiver
5,980,647	E. D. Buker, E. W. Conrad, and J. M. Leas	Metal removal cleaning process and apparatus
5,981,000	A. Grill, C. Jahnes, and V. V. Patel	Method for fabricating a thermally stable diamond-like carbon film
5,981,110	M. George and T. E. Neary	Method for repairing photomasks
5,981,148	C. Huynh, J. Dunn, J. S. Brown, P. W. Pastel, R. K. Leidy, and S. J. Holmes	Method for forming sidewall spacers using frequency doubling hybrid resist and device formed thereby
5,981,310	D. Goland, D. J. Womac, D. L. Edwards, G. DiGiacomo, L. D. Gross, L. W. Herron, R. A. Sherif, S. Iruvanti, S. L. Shinde, and S. S. Drofitz	Multi-chip heat-sink cap assembly
5,981,312	D. S. Farquhar, J. R. Wilcox, K. I. Papatthomas, and M. J. Klodowski	Method for injection molded flip chip encapsulation
5,981,332	J. Alsmeyer, J. A. Mandelman, L. L. Hsu, and W. R. Tonti	Reduced parasitic leakage in semiconductor devices
5,981,374	D. B. Nguyen, H. M. Dalal, and H. S. Rathore	Sub-half-micron multi-level interconnection structure and process thereof
5,981,880	A. C. Bhatt, B. K. Appelt, J. M. Lauffer, J. W. Fuller, Jr., V. R. Markovich, W. E. Wilson, and W. J. Rudik	Electronic device packages having glass free non-conductive layers
5,981,903	A. Tam, C. C. Poon, I. K. Pour, J. H. Brannon, and P. Baumgart	Laser system for simultaneous texturing of two sides of a substrate
5,981,962	R. A. Kendall and T. R. Groves	Distributed direct write lithography system using multiple variable shaped electron beams
5,981,970	B. K. Furman, C. D. Dimitrakopoulos, D. Neumayer, P. R. Duncombe, R. B. Laibowitz, and S. Purushothaman	Thin-film field-effect transistor with organic semiconductor requiring low operating voltages
5,981,992	D. Kenney	Mechanical supports for very thin capacitor plates

5,982,038	D. L. Edwards, H. T. Toy, J. Covell, L. R. Bolde, L. S. Goldmann, and P. A. Gruber	Cast metal seal for semiconductor substrates
5,982,189	F. Motika, J. Shushereba, and P. Nigh	Built-in dynamic stress for integrated circuits
5,982,203	A. R. Pelella	Two stage SRCMOS sense amplifier
5,982,225	E. J. Nowak, M. Sayala, R. A. Warren, S. Mittl, T. B. Hook, and T. E. Forhan	Hot electron compensation for improved MOS transistor reliability
5,982,232	D. L. Rogers	Low noise, bandwidth compensated transimpedance amplifier
5,982,367	C. C. Alimpich, D. Neuhard, J. S. Goddard, M. T. Vo, and R. Yang	Method and system for creating a list from pre-defined and use-defined printer values
5,982,370	R. J. Kamper	Highlighting tool for search specification in a user interface of a computer system
5,982,372	A. P. Brush, D. Lection, D. R. Wood, G. A. Cuomo, and S. D. Redpath	Visual metaphor for shortcut navigation in a virtual world
5,982,627	J. Adams, J. Walker, P. Haughton, R. Samper, and T. S. Farrow	Card retention latch including card guide and locking frame
5,982,692	B. Ross, G. A. Yeung, and G. M. Lattimore	Bit line boost amplifier
5,982,865	J. Michaels, P. Jaiswal, P. P. Mansey, S. Gandhi, and T. Creamer	Flexible customer billing solution for telephone systems utilizing intelligent peripherals in advanced intelligent network
5,982,997	D. E. Stone, D. J. Shields, and R. H. Hohensee	Data stream protocol for immediate job switching
5,983,003	D. Lection, D. A. Schell, D. R. Wood, and S. D. Redpath	Interactive station indicator and user qualifier for virtual worlds
5,983,016	D. Gangopadhyay, G. C. Doney, M. M. Golding, R. Panwar, S. Brodsky, and S. Mitra	Execution engine in an object modeling tool
5,983,020	F. Tip and P. F. Sweeney	Rule-based engine for class hierarchy transformation of class hierarchy of an object-oriented program
5,983,025	C. M. Herring, J. E. Derrick, and W. R. Greer	Computer system buffers for providing concurrency and avoid deadlock conditions between CPU accesses, local bus accesses, and memory accesses
5,983,235	J. L. Howe III and K. R. Blackman	A method for managing queryable datastore persistent objects and queryable datastore collections in an object-oriented environment
5,983,239	D. M. Cannon	Storage management system with file aggregation supporting multiple aggregated file counterparts
5,983,243	A. F. Stuart, M. Viswanathan, and R. L. Heiney	Data processing system and method for preparing a presentation-ready document that produces separate images of fixed and variable data and a bookticket specifying an arrangement of such images
5,983,244	W. G. Nation	Indicating when clickable image link on a hypertext image map of a computer web browser has been traversed
5,983,259	A. J. Stagg, B. Rajaraman, D. Gugliotta, L. D. Long, L. F. Menditto, L. H. Overby, M. E. Miyake, and S. A. Campbell	Systems and methods for transmitting and receiving data in connection with a communications stack in a communications system
5,983,281	B. Vashaw, C. Norton, D. Ogle, and K. M. Tracey	Load balancing in a multiple network environment
5,983,318	D. J. Winarski and L. D. Willson	Maximizing hit ratio in an automated storage library
5,983,322	J. D. Lewis, J. S. Dodson, L. Clark, and R. K. Arimilli	Hardware-managed programmable congruence class caching mechanism
5,983,335	H. Dwyer	Computer system having organization for multiple condition code setting and for testing instruction out-of-order
5,983,339	P. J. Klim	Power-down system and method for pipelined logic functions
5,983,341	H. Cheong, H. Q. Le, and P. J. Jordan	Data processing system and method for anticipating instruction execution
5,983,343	J. E. Phillips and S. E. Eisen	Data processing system having an apparatus for de-serialized status register operation and method therefor
5,983,368	D. Noddings	Method and system for facilitating hierarchical storage management (HSM) testing
5,983,380	F. Motika, J. Shushereba, and S. V. Pateras	Weighted random pattern built-in self-test
5,984,478	F. E. Doany and J. Misewich	Dynamic optical compensation for color sequential projection display
5,984,523	D. E. Houser and F. S. Poch	Method for recording the heat generated in a hole wall of a substrate during a drilling operation
5,984,608	D. C. Linnell, R. Kuder, R. A. Meyen, R. P. Westerfield, and T. Jantz	Automated chamfering apparatus and method
5,984,691	G. E. Myrto, G. L. Kehley, J. H. Sherman, and W. L. Brodsky	Flexible circuitized interposer with apertured member and method for making same
5,984,787	R. J. Redpath	Method and system for multi-user game recovery
5,985,104	J. D. Westwood	Sputtered mask defined with highly selective side wall chemical etching

5,985,128	G. B. Monjeau, H. Liu, K. Ruffing, K. P. McLaughlin, S. Farooq, and S. Kaja	Method of performing processes on features with electricity
5,985,458	A. Viehbeck, J. M. Rubino, J. M. Shaw, M. Angelopoulos, R. Saraf, S. Purushothaman, T. Graham, and V. A. Brusic	A housing for electromagnetic interference shielding thereof
5,985,492	D. C. Wheeler, J. A. Mandelman, and R. Mih	Multi-phase mask
5,985,524	D. C. Hofer, G. M. Wallraff, R. Sooriyakumaran, and R. D. Allen	Process for using bilayer photoresist
5,985,760	D. H. Glatzel, D. J. Russell, and J. M. Lauffer	Method for manufacturing a high density electronic circuit assembly
5,985,762	R. M. Geffken and S. E. Luce	Method of forming a self-aligned copper diffusion barrier in vias
5,986,395	A. R. Knox, J. U. Knickerbocker, and R. Rosenberg	Metal/ferrite laminate magnet
5,986,426	B. S. Rowan	Adaptive pulse width modulated motor control
5,986,472	F. F. Hinedi, M. Cases, R. Dennard, and S. Dutta	Voltage level translation for an output driver system with a bias generator
5,986,511	G. R. Castellucci	Frequency dependent impedance
5,986,652	J. P. Bigus and R. E. Medl	Method for editing object wherein steps for creating that object are preserved
5,986,676	D. Dwin, D. W. Nuechterlein, P. Yosim, and W. R. Lee	Device for protecting selected information in multi-media workstations
5,986,714	C. F. Marino	Method and apparatus for selectively reducing bandwidth of real-time video data
5,986,759	D. M. DeCain, K. R. Pope, and P. C. Hobbs	Optical interferometer measurement apparatus and method
5,986,761	A. Juliana, H. J. Rosen, L. Crawforth, M. R. Latta, and W. I. Imaino	Laser-based inspection tool for disk defects and curvature
5,986,852	D. J. Wanek, D. L. Good, J. C. Jans, J. L. Neubauer, J. R. Reidenbach, J. T. Coffey, K. W. Meyer, L. Berg, P. M. Herman, R. Greenberg, S. H. Voss, W. E. Zahn, and W. W. Brooks, Jr.	High capacity, high performance low profile disk drive
5,986,853	R. G. Simmons and W. C. Shum	Transducer suspension system
5,986,950	T. W. Joseph	Use of redundant circuits to improve the reliability of an integrated circuit
5,986,962	C. L. Bertin, K. J. Goodnow, S. T. Ventrone, and W. D. Pricer	Internal shadow latch
5,987,124	D. B. Johnson and S. M. Matyas	Method and apparatus for encrypting long blocks using a short-block encryption procedure
5,987,247	C. Lau	Systems, methods and computer program products for building frameworks in an object oriented environment
5,987,255	N. Sundaresan	A method of, system for, and article of manufacture for providing a generic adaptor for converting from a sequential iterator to a pre-thread parallel iterator
5,987,404	J. Koppelman, M. Franz, M. E. Epstein, R. T. Ward, S. Della Pietra, and S. Roukos	Statistical natural language understanding using hidden clumpings
5,987,405	D. F. Bantz and R. Zavrel	Speech compression by speech recognition
5,987,423	A. Berg, A. Nilsson, H. Odegaard, K. A. Bohrer, T. Brane, T. Dahl, T. Michaelson, T. Pernbeck, and V. D. Arnold	Object oriented technology framework for order processing
5,987,455	R. J. Cochrane, R. S. Sidle, and S. P. Rielau	Intelligent compilation of procedural functions for query processing systems
5,987,465	E. T. Lin, J. Kleewein, and Y. Wang	System, method and computer program product for positioned update support
5,987,466	T. D. Greer and W. F. Phillips	Presenting web pages with discrete, browser-controlled complexity levels
5,987,477	A. Zlotek, B. Shmueli, and F. Schmuck	Parallel file system and method for parallel write sharing
5,987,482	C. Bates and P. R. Day	Computer system and method of displaying hypertext documents with internal hypertext link definitions
5,987,495	C. A. Scalzi, D. F. Ault, and K. E. Plambeck	Method and apparatus for fully restoring a program context following an interrupt
5,987,515	B. H. Ratcliff and S. R. Valley	Internet protocol assists using multi-path channel protocol
5,987,521	A. Magnuson, A. H. Arrowood, C. A. Carriker, L. Petri, L. Temoshenko, and S. McClernan	Management of path routing in packet communications networks
5,987,523	A. Wesley, D. B. Lindquist, J. R. Hind, P. Nanavati, and Y. S. Tan	Applet redirection for controlled access to non-originating hosts

5,987,536	D. D. Williams, H. J. Locker, J. W. Pearce, R. D. Johnson, and R. S. Springfield	Computer system having flash memory bios which can be accessed while protected mode operating system is running
5,987,548	R. C. Dixon	Method and apparatus for identification number system
5,987,577	C. P. Miller and M. Beiley	Dual word enable method and apparatus for memory arrays
5,987,587	D. Meltzer	Single chip multiprocessor with shared execution units
5,987,598	C. P. Roth, E. H. Welbon, and F. E. Levine	Method and system for tracking instruction progress within a data processing system
5,987,725	B. A. Valdes, J. C. Major, and M. A. Church	Method for parting a slider from a slider row
5,987,742	M. A. Acciai, R. N. Ives, and R. R. Hall	Technique for attaching a stiffener to a flexible substrate
5,987,890	G. Hougham, G. L. Chiu, and L. S. Mok	Electronic component cooling using a heat transfer buffering capability
5,989,443	K. L. Covert, K. W. Semkow, and L. J. Smith-Jimarez	Selective etching of nickel/iron alloys
5,989,674	B. R. York, E. E. Marinero, and T. M. Reith	Thin film disk with acicular magnetic grains
5,989,728	J. K. Howard, K. R. Coffey, and M. A. Parker	Thin film magnetic recording medium having high coercivity
5,989,751	J. Cotte and M. Datta	High energy density, flexible lithium primary batteries
5,990,249	B. K. Furman and M. Angelopoulos	Methods of fabrication of deaggregated electrically conductive polymers and precursors thereof
5,990,418	J. Coffin, K. Bivona, L. S. Goldmann, M. J. Interrante, R. A. Sherif, S. Iruvanti, and S. S. Drofitz	Hermetic CBGA/CCGA structure with thermal paste cooling
5,990,509	H. I. Hanafi, J. J. Welser, and S. M. Burns	2F-square memory cell for gigabit memory applications
5,990,511	J. M. Leas	Memory cell with transfer device node in selective polysilicon
5,990,562	D. P. Vallett	Semiconductor devices having backside probing capability
5,990,887	G. A. Cuomo and R. J. Redpath	Method and system for efficient network desirable chat feedback over a communication network
5,990,888	H. G. Kiel, J. A. Blades, and R. Romon	Method and system for manipulating graphical objects
5,990,889	H. Y. Amro	Method, memory and apparatus for automatically resizing a window in response to a loss or gain in focus
5,991,115	A. P. Praino, B. C. Webb, E. J. Yarmchuk, M. Schultz, and T. J. Chainer	Method and apparatus for determining separation between read and write elements of a transducer
5,991,150	F. E. Doany, G. L. Chiu, J. P. Karidis, R. N. Singh, and T. M. Cipolla	Self deploying magnifier for a portable computer display screen
5,991,208	A. G. Aipperspach, P. J. Paulson, and P. T. Freiburger	Write multiplexer apparatus and method for multiple write port programmable memory
5,991,224	A. G. Aipperspach, P. J. Paulson, and P. T. Freiburger	Global wire management apparatus and method for a multiple-port random access memory
5,991,385	A. G. Ganek, B. E. Willner, E. H. Stern, and J. M. Dunn	Enhanced audio teleconferencing with sound field effect
5,991,401	D. Neal, S. L. Daniels, T. D. Escamilla, and Y. H. Ng	Method and system for checking security of data received by a computer system within a network environment
5,991,414	C. Jutla, J. A. Garay, R. Gennaro, and T. D. Rabin	Method and apparatus for the secure distributed storage and retrieval of information
5,991,521	C. H. Smith, C. I. Gabele, and S. T. Quay	Method and system of checking for open circuit connections within an integrated-circuit design represented by a hierarchical data structure
5,991,536	S. Brodsky and T. J. Grose	Notification manager for object-oriented systems
5,991,708	C. P. Roth, E. H. Welbon, and F. E. Levine	Performance monitor and method for performance monitoring within a data processing system
5,991,710	K. Papineni, R. T. Ward, and S. Roukos	Statistical translation system with features based on phrases or groups of words
5,991,713	G. B. Fuller and J. Unger	Efficient method for compressing, storing, searching, and transmitting natural language text
5,991,757	J. C. Endicott, J. H. Peterson, P. J. Heyrman, R. G. Mustain, R. K. Kirkman, and S. A. Dahl	Method and system for searching an array for an array value
5,991,764	N. Sundaresan	A method of, system for, and article of manufacture for providing a data structure supporting a generic reduction object for data parallelism
5,991,775	B. C. Beardsley, J. H. Cord, L. C. Blount, M. H. Hartung, and V. J. Legvold	Dynamic record caching allocation

5,991,792	P. Nageswaran	Method, apparatus and computer program product for dynamically managing a thread pool of reusable threads in a computer system
5,991,821	L. Brenner, O. T. Kirby, and P. R. Badovinatz	Method for serializing actions of independent process groups
5,992,957	F. Edlinger, P. W. Kelly, and R. M. Ecker	Abrasion control on sliding assemblies
5,993,059	J. Singh and J. A. O'Neill	Combined emissivity and radiance measurement for determination of temperature of radiant object
5,993,088	L. M. Tartak, M. Vanderwiele, and P. Nogay	A method for improving print performance and quality by accumulating, storing and using resource accounting information with a print job
5,993,095	R. H. Harris	Mechanical transmission
5,993,566	T. Lin	Fabrication process of NI-MN spin valve sensor
5,993,579	D. S. Farquhar, J. R. Wilcox, L. J. Smith-Jimarez, N. B. Feilchenfeld, and W. L. Brodsky	High performance electrical cable and method of manufacture
5,993,615	C. Abry, J. N. Seward, and W. J. Murphy	Method and apparatus for detecting arcs
5,993,945	D. H. Glatzel and D. J. Russell	Process for high resolution photoimageable dielectric
5,994,162	B. U. Klepser, J. Burghartz, and M. B. Ritter	Integrated circuit-compatible photo detector device and fabrication process
5,994,198	J. A. Mandelman, L. L. Hsu, and W. R. Tonti	Fabrication method for fully landing subminimum features on minimum width lines
5,994,202	G. B. Bronner, J. A. Mandelman, J. P. Gambino, and L. A. Nesbit	Threshold voltage tailoring of the corner of a MOSFET device
5,994,215	J. P. Gambino, R. Stengl, and S. V. Nguyen	Method for suppressing pattern distortion associated with BPSG reflow
5,994,241	M. Ronay	Method of forming conductive lines on a semiconductor wafer
5,994,597	A. C. Bhatt and J. J. Wagner	Process for recovering high boiling solvents from a photolithographic waste stream comprising less than 10 percent by weight monomeric units
5,994,910	A. P. Ingraham, F. J. Downes, Jr., and J. A. Molla	Apparatus, and corresponding method, for stress testing wire bond-type semiconductor chips
5,994,924	D. L. Ostapko and J. F. Lee	Clock distribution network with dual wire routing
5,994,937	K. N. Quader, T. Hara, and Y. Watanabe	Temperature and power supply adjusted address transition detector
5,995,019	H. Heinrich, L. R. Zai, P. J. Sousa, T. Cofino, and T. C. Chieu	Method for communicating with RF transponders
5,995,114	D. Tunkelang and M. N. Wegman	Applying numerical approximation to general graph drawing
5,995,317	H. H. Ottesen	Method and apparatus for real-time filtering of a position error signal for a disk drive servo system
5,995,425	A. T. Williams, R. V. Joshi, W. Hwang, and W. H. Henkels	Design of provably correct arrays
5,995,440	S. C. Lewis and T. M. Maffitt	Off-chip driver and receiver circuits for multiple voltage level DRAMs
5,995,570	G. A. Marin and R. O. Onvural	Recovering a clock signal in a multimedia network using time stamps
5,995,590	A. P. Ittycheriah, B. Ramabhadran, C. Narayanaswami, M. A. Picheny, and P. T. Brunet	Method and apparatus for a communication device for use by a hearing impaired/mute or deaf person or in silent environments
5,995,598	V. Berstis	Phone line LAN
5,995,640	R. M. Bolle, S. Pankanti, and Y. Yao	System and method for determining if a fingerprint image contains an image portion representing a dry fingerprint impression
5,995,743	J. A. Kahle and S. Mallick	Method and system for interrupt handling during emulation in a data processing system
5,995,752	C. A. Manoni, M. Cooper, S. Vemuri, and T. Chao	Use of language instructions and functions across multiple processing sub-environments
5,995,931	B. L. Lewis, C. Waast, E. Epstein, J. M. Le Roux, L. R. Bahl, P. V. de Souza, and S. V. De Gennaro	Method for modeling and recognizing speech including word liaisons
5,995,933	A. A. Nassiff, F. Fado, P. J. Guasti, and R. VanBuskirk	Configuring an audio interface contingent on sound card compatibility
5,995,957	A. Shibamiya, B. Iyer, H. S. Tie, M. Wang, and T. A. Beavin	Improved query optimization through the use of multi-column statistics to avoid the problems of column correlation
5,995,960	M. S. Spencer and T. A. Lochner	Method and system for improving efficiency of programs utilizing databases
5,995,975	J. W. Malcolm	Dictionary process for object containment
5,995,977	M. Presler-Marshall	Module configuration systems, methods and computer products for data processing systems
5,996,013	A. A. Slane, G. S. Delp, P. L. Leichty, R. Rajan, R. A. Guerin, and V. Peris	Method and apparatus for resource allocation with guarantees

5,996,016	D. Fuqua, D. R. Thalheimer, and H. Lee	Dynamic IP address association
5,996,025	D. Shi, D. E. Wood, L. W. Russell, M. N. Day, P. P. Dixon, R. L. Verburg, T. Pham, and Y. T. Yeung	Network transparent access framework for multimedia serving
5,996,035	J. M. Allen and P. K. Egan	Hot-plug voltage and power management control using detected connection status
5,996,040	F. Malgioglio and P. J. Meaney	Scalable, modular selector system
5,996,049	J. D. Lewis, J. M. Kaiser, J. S. Dodson, and R. K. Arimilli	Cache-coherency protocol with recently read state for data and instructions
5,996,074	D. Rhoades, J. Turek, and K. Houck	In-box configuration apparatus for a computer system
5,996,085	H. Cheong and H. Q. Le	Concurrent execution of machine context synchronization operations and non-interruptible instructions
5,996,087	L. Brenner, O. T. Kirby, and P. R. Badovinatz	Program product for serializing actions of independent process groups
5,996,092	J. N. Dieffenderfer, J. T. Bridges, T. A. Sartorius, T. K. Collopy, and V. R. Augsburg	System and method for tracing program execution within a processor before and after a triggering event
5,996,096	M. W. Kellogg and T. Dell	Dynamic redundancy for random access memory assemblies
5,996,097	D. A. Evans and L. Ternullo	Testing logic associated with numerous memory cells in the word or bit dimension in parallel
5,996,601	D. J. Martin and F. W. Kern, Jr.	Polymer protected component
5,996,985	B. Peterson, D. C. Long, D. R. Wall, J. G. Balz, and M. LaPlante	Component retainer
5,997,392	E. G. Walton, M. K. Miller, and Y. Chamberlin	Slurry injection technique for chemical-mechanical polishing
5,997,638	F. Le Goues, M. H. von Hoegen, M. W. Copel, and R. Tromp	Localized lattice-mismatch-accommodation dislocation network epitaxy
5,997,773	A. Viehbeck, J. M. Rubino, J. M. Shaw, M. Angelopoulos, R. Saraf, S. Purushothaman, T. Graham, and V. A. Brusic	Composition containing a polymer and conductive filler and use thereof
5,997,798	A. Tremblay and R. Tetreault	Biasing mold for integrated circuit chip assembly encapsulation
5,997,997	A. P. Angelopoulos, G. W. Jones, L. J. Matienzo, T. R. Miller, and V. R. Markovich	Method for reducing seed deposition in electroless plating
5,998,248	H. C. Wann and W. H. Ma	Fabrication of semiconductor device having shallow junctions
5,998,250	D. E. Kotecki, K. Saenger, and P. C. Andricacos	Compound electrode stack capacitor
5,998,273	H. C. Wann and W. H. Ma	Fabrication of semiconductor device having shallow junctions
5,998,292	C. Black, J. Burghartz, J. J. Welser, and S. Tiwari	Method for making three dimensional circuit integration
5,998,569	D. P. Hogan and H. G. Linde	Environmentally stable optical filter materials
5,998,835	D. V. Horak, J. A. Mandelman, M. C. Hakey, S. J. Holmes, T. Furukawa, and W. H. Ma	High performance MOSFET device with raised source and drain
5,998,847	C. L. Bertin, F. Assaderaghi, J. A. Mandelman, J. P. Gambino, and L. L. Hsu	Low voltage active body semiconductor device
5,998,848	J. S. Brown, R. J. Gauthier, and S. H. Voldman	Depleted poly-silicon edged MOSFET structure and method
5,998,852	J. Faul, R. L. Mohler, W. E. Haensch, and W. S. Berry	Geometrical control of device corner threshold
5,998,868	B. Davari, H. B. Pogge, H. L. Kalter, and J. Greschner	Very dense chip package
5,998,876	C. J. Hawker, J. L. Hedrick, K. R. Carter, M. Gaynes, R. D. Miller, and S. L. Buchwalter	Reworkable thermoplastic hyper-branched encapsulant
5,998,981	A. B. Wilson, R. J. Houghton, and R. M. Parent	Weak inversion NMOS regulator with boosted gate
5,999,013	J. R. Elliott	Method and apparatus for testing variable voltage and variable impedance drivers
5,999,037	D. C. Edelstein, K. Bernstein, W. A. Klaasen, and W. D. Pricer	Circuit for operating a control transistor from a fusible link
5,999,110	B. Kabelac, G. A. Jaquette, M. Blaum, and S. R. Hetzler	Defect tolerant binary synchronization mark
5,999,177	A. E. Martinez	A method and system for controlling content on a display screen in a computer system
5,999,234	D. J. Pearson, G. L. Chiu, and R. A. Budd	A transmissive cell for ultra small pixel applications

5,999,356	J. E. Kulakowski, K. Dimitri, and R. J. Means	Data cartridge library with rotating storage stacks
5,999,379	D. Mauri, N. L. Robertson, and R. Hsiao	Spin valve read head with plasma produced metal oxide insulation layer between lead and shield layers and method of making
5,999,549	D. W. Siljenberg, L. W. Freitag, and R. J. Thatcher	Method and apparatus for laser safety
5,999,612	A. G. Ganek, B. E. Willner, E. H. Stern, and J. M. Dunn	Integrated telephony and data services over cable networks
5,999,714	A. R. Conn, C. Visweswariah, and R. A. Haring	Method for incorporating noise considerations in automatic circuit optimization
5,999,721	D. Colglazier	Method and system for the determination of performance characteristics of a cache design by simulating cache operations utilizing a cache output trace
5,999,935	C. E. Clark, D. R. Sutherland, J. D. Haggar, and S. J. Greenspan	Tail compression of a sparse log stream of a multisystem environment
5,999,945	D. Neuhard, D. R. Palmer, and L. C. Lahey	Method for organizing files associated with a job ticket used in a network printing system
5,999,974	B. H. Ratcliff and S. R. Valley	Internet protocol assists for high performance LAN connections
5,999,976	A. Zlotek, B. Shmueli, F. Schmuck, J. Wyllie, and W. A. Kish	Parallel file system and method with byte range API locking
5,999,982	D. Patterson and G. T. Kishi	Automated message processing system
5,999,992	G. F. Grohoski, O. Mitchell, P. J. Jordan, T. M. Nguyen, W. R. Hardell, and Y. Rim	A system and method for adapting data ports in transferring data between computing elements
6,000,014	J. D. Lewis, J. S. Dodson, L. Clark, and R. K. Arimilli	Software-managed programmable congruence class caching mechanism
6,000,033	E. E. Kelley, J. U. Knickerbocker, and N. J. Dauerer	Password control via the web
6,000,036	C. M. Durham, P. J. Klim, and W. B. Van Der Hoeven	Logical steering to avoid hot spots on integrated circuits
6,000,129	A. C. Bhatt, A. F. Moring, D. H. Glatzel, D. J. Russell, K. I. Papathomas, and V. R. Markovich	Process for manufacturing a circuit board with filled holes
6,000,130	C. S. Chang and F. D. Egitto	Planar redistribution structure and printed wiring device
6,000,418	F. W. Kern, Jr. and W. A. Syverson	An integrated dynamic fluid mixing apparatus and method
6,000,623	C. W. Mann, D. G. Lund, K. G. Blatti, M. G. Clark, S. P. Mroz, S. S. Kang, and T. D. Green	System packaging for high performance computer applications
6,000,768	E. N. Dials, L. Hodges, and S. Luglan	Minimal fastener electronic console
6,001,235	A. Chiu, D. M. Arken, J. J. Fatula, R. W. Hitzfeld, W. C. Hsiao, and Y. Hsiao	Rotary plater with radially distributed plating solution
6,001,268	A. C. Ting, C. Hwang, D. Perez, G. Dworschak, M. Straub, and S. V. Nguyen	Reactive ion etching of alumina/TIC substrates
6,001,662	A. Correale, J. N. Dieffenderfer, K. Patel, R. W. Kohake, and T. Garner	Method and system for providing a reusable configuration self-test controller for manufactured integrated circuits
6,001,702	C. Gruszecki, F. Scholl, M. A. Passaro, R. K. Cook, and S. E. Luce	Metal to metal capacitor and method for producing same
6,002,031	D. Neumayer and P. R. Duncombe	Novel metal alkoxyalkoxidicarboxylates and use to form films
6,002,136	M. Naeem	Microscope specimen holder and grid arrangement for in-situ and ex-situ repeated analysis
6,002,164	H. W. Conru and S. Starr	Semiconductor lead frame
6,002,172	A. K. Sarkhel and K. V. Desai	Substrate structure and method for improving attachment reliability of semiconductor chips and modules
6,002,177	A. J. Emerick, C. G. Woychik, J. M. Zalesinski, M. A. Gaynes, and V. Puligandla	High density integrated circuit packaging with chip stacking and via interconnections
6,002,267	A. K. Malhotra, J. Pennacchia, R. Shields, and T. A. Wassick	Improvement of in-line voltage plane test for multi-chip modules
6,002,271	M. Lee, S. G. Chu, and V. R. Kodali	Dynamic MOS logic circuit without charge sharing noise
6,002,275	K. Hosokawa and T. Kirihata	Single ended read write drive for memory
6,002,285	J. S. Muhich and Q. Nguyen	Circuitry and method for latching information
6,002,292	D. H. Allen and D. L. Stasiak	Method and apparatus to control noise in a dynamic circuit
6,002,352	H. S. El-Ghoroury, J. Gu, M. Millward, and S. D. Hall	Method of sampling, downconverting, and digitizing a bandpass signal using a digital predictive coder
6,002,397	W. Jaaskelainen, Jr.	Window hatches in graphical user interface
6,002,400	A. J. Happ, D. J. Krajnovich, and K. Loring	Method and apparatus for handles to components in graphical user interface

6,002,539	G. J. Smith and H. H. Ottesen	Method and apparatus for positioning a dual element magnetoresistive head
6,002,540	E. A. Cunningham, H. H. Ottesen, and K. J. Erickson	Method and apparatus for rotary actuator arc compensation correction in a direct access storage device
6,002,541	J. Hong, K. A. Belser, and S. Yamamoto	Method and apparatus for providing a linear position error sensing (PES) signal
6,002,575	D. E. Kotecki and W. H. Ma	Adherent separator for self-defining discontinuous film
6,002,754	P. Jaiswal, S. Gandhi, and V. Michellini	Billing formatter for telephone systems utilizing intelligent peripherals in advanced intelligent network
6,002,809	E. Feig, E. Linzer, and I. R. Finlay	Digital image processor for image scaling
6,002,874	B. A. Feigenbaum and P. C. Bahrs	Method and system for translating goto-oriented procedural languages into goto-free object oriented languages
6,002,951	D. Goland, L. Studzinski, R. A. Shelleman, R. V. Vallabhaneni, and S. L. Shinde	Multi-layer ceramic substrate having high T_c superconductor circuitry
6,002,970	A. L. Bond, F. K. Yu, G. Abdelnour, K. H. Potter, Jr., and R. W. Downes	Method and apparatus for interface dual modular redundancy
6,002,998	M. J. Martino and R. C. Paulsen	Fast, efficient hardware mechanism for natural language determination
6,003,022	H. H. Hall, R. Eberhard, and S. Lakshmi	Database execution cost and system performance estimator
6,003,023	W. J. Schmidt	Incremental change processing apparatus for presented objects
6,003,029	D. Gunopulos, J. Gehrke, P. Raghavan, and R. Agrawal	Automatic subspace clustering of high dimensional data for data mining applications
6,003,042	G. T. Melahn	Systems, methods and computer programs products for storing a new version of an Envy Library file in a teamconnection object oriented programming environment
6,003,048	D. C. Fallside	System and method for converting a coordinate based document to a markup language (ML) based document
6,003,059	R. A. Bechade	Carry select adder using two level selectors
6,003,066	C. H. Brobst, C.-H. Chou, and J. M. Ryan	System for distributing a plurality of threads associated with a process initiating by one data processing station among data processing stations
6,003,075	C. Y. Chao, F. D. Lawlor, J. Ramanathan, J. W. Arendt, M. D. Kistler, R. Strong, and R. A. Mancisidor	Dynamic changes in configuration
6,003,080	B. H. Ratcliff and S. R. Valley	Internet protocol assists using multi-path channel protocol
6,003,082	D. C. Wolfe, J. Gampper, and T. Makansi	Selective internet request caching and execution system
6,003,083	D. N. Dillenberger, G. Normington, and K. E. Davies	Workload management amongst server objects in a client-server network with distributed objects
6,003,087	B. C. Housel and D. B. Lindquist	CGI response differencing communication system
6,003,088	A. Stagg, A. R. Sager, B. H. Ratcliff, D. W. Schmidt, J. Houston, and S. R. Valley	Blocking IP datagrams in a multi-path channel point-to-point environment
6,003,091	C. B. Stunkel, D. L. Garmire, F. A. Kampf, J. R. Herring, K. J. Reilly, N. Rash, and R. F. Bartfai	Verifying a time-of-day counter
6,003,094	A. R. Dean	Generic Java gateway for connecting a client to a transaction processing system
6,003,095	C. J. Rousse and R. P. Pekowski	Apparatus and method for demand loading a dynamic link library
6,003,101	B. A. Williams	Efficient priority queue
6,003,106	G. L. Guthrie and J. S. Fields, Jr.	High performance multichannel DMA controller in a PCI host bridge with a built-in cache
6,003,126	D. Huynh and W. L. Leung	Special instruction register including allocation field utilized for temporary designation of physical registers as general registers
6,003,418	D. C. Long, K. C. O'Neil, L. Economikos, M. LaPlante, and R. J. Bezama	Punched slug removal system
6,003,757	D. Danovitch, G. Beaumont, G. Brouillette, and P. A. Gruber	Apparatus for transferring solder bumps and method of using
6,003,863	A. Decker and W. A. Barringer	Apparatus and method for conveying a flexible sheet through manufacturing processes
6,004,139	J. N. Ohler, K. Dramstad, and S. Grundon	Memory module interface card adapter
6,004,472	L. K. Dorius and S. A. Bolasna	Dual etch step process for making a three etch depth air bearing slider
6,004,473	C. Hwang, D. J. Seagle, and R. Hsiao	Magnetic write head having a coil with submicron pitch