

Recent IBM patents

The following patents were recently issued by the countries in which the inventions were made. For U.S. patents, titles and names supplied to us by the U.S. Patent Office are reproduced exactly as they appear on the original published patent.

Federal Republic of Germany

3,721,940	J. Keyser, K. Asch, K. Meissner, and W. Zapka	Removal of Particles from Solid State Surface by Laser Bombardment
3,072,139,208	H. Painke	Control Device for Directing Execution of Forced Operations in a Data Processing System
3,379,354,908	A. Blum	Testing and Diagnostic Device for Digital Computers
3,379,363,808	G. Bohlen, H. Trump, J. Trump, J. Greschner, P. Nehmiz, U. Behringer, and W. Zapka	Method of Making Structures with Dimensions in the Sub-Micrometer Range
3,475,566,708	D. Wagner	Method and Device for Surface Testing
3,476,281,708	H. Bohlen, P. Vettiger, U. Behringer, and W. Zapka	Method for Preparing Transmission Masks
3,476,615,408	S. K. Wiedmann	Bipolar Logic Circuit with Storage Charge Control
3,477,455,608	U. Kuenzel, W. Cziep, and W. D. Ruh	Producing Viaholes in Plastic Sheets and Application of the Method
3,567,827,508	M. E. Nitschke	Cutting Device for Paper and Foil Webs, Particularly for Plotters, Copiers and Similar Machines
3,567,971,908	A. Brunsch, A. Bruschn, G. Trippel, and W. Steiner	Improving Magnetic Particle Dispersions
3,568,097,008	H. Hinkel and U. Bandara	Method for Lowering the Frictional Coefficient of the Magnetic Disk Storage System
3,569,265,008	H. J. Bauer and M. B. Froehlich	Method of Making Low Resistance Contacts

France

162,174	G. Platel, P. Secondo, and S. Wiest	Buffer Device for a Voice Transmission Network
183,885	B. Denis and D. Omet	Memory Using Conventional Cells to Perform a RAM or an Associative Memory Function
8,615,432	B. Fournier	Improving Chambers for the Treatment of Semiconductor Substrates

Japan

757,705	T. Imai	Sheet Feed Tractor Cartridge for a Printer
761,050	H. Takahashi	Image Scanner
1,472,131	K. Tsukamoto	Bill Stacker for Automatic Bill Issue and Deposit Machine

Sweden

44,981	P. Falkjaer	Program Product Package
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Switzerland

- 166,004 A. D. Wilson, D. Kern, D. P. Kern, P. Vettiger, and T. Forster Proximity Effect Correction Method for E-Beam Lithography
- 185,104 A. Baratoiff, C. S. Harder, H. P. Wolf, P. L. Gueret, and W. Baechtold Low Temperature Tunneling Transistor
- 185,782 C. S. Harder, D. Pohl, E. Stoll, and W. D. Pohl Waveguide for an Optical Near-Field Microscope

United Kingdom

- 130,245 A. C. Gay, J. E. Bresenham, N. R. Sheen, and R. J. Bowater Method of Storing Characters in a Display System
- 139,057 R. Chaplin An Optical Vibration Analyser
- 147,490 D. Sawdon Switched Mode Power Supply
- 166,044 V. P. Thomas Four Quadrant Multiplier
- 166,045 C. V. Powell, M. I. Davis, R. J. Bowater, and R. W. Farr Graphics Display Terminal and Method of Storing Alpha-Numeric Data Therein
- 174,403 A. S. Murphy Automatic Highlighting in a Raster Graphics Display System
- 205,699 A. Paton and B. D. Chase Shadow Mask Colour CRT with Enhanced Resolution and/or Brightness

United States

- 4,743,098 J. A. Dickerson, J. C. Greeson, Jr., C. C. Kilmer, and N. M. Poley TFT LC Display Having Polychromatic Glass Color Filters
- 4,743,099 J. A. Dickerson and C. C. Kilmer Method of Making a TFT LC Display Having Polychromatic Glass Color Filters
- 4,743,565 G. R. Goth and S. D. Malaviya Lateral Device Structures Using Self-Aligned Fabrication Techniques
- 4,743,781 H. S. Bhatia, H. J. Jones, and S. D. Malaviya Dotting Circuit with Inhibit Function
- 4,743,821 S. A. Hall Pulse-Width-Modulating Feedback Control of Electromagnetic Actuators
- 4,743,847 J. E. Frushour Printed Circuit Conductor Test System
- 4,743,848 D. L. Krimm, W. R. Yount, and J. O. Stidam Method of Testing a Stepping Motor
- 4,743,861 S. A. Jove, K. B. Klaassen, J. C. L. VanPeppen, and C. N. Vo Frequency Response Compensation Circuit
- 4,743,943 L. Adams, Jr. and R. W. Gunnell Renewable Fuser Wick
- 4,743,951 C.-A. Chang, L. L. Chang, L. Esaki, and E. E. Mendez Field Effect Transistor
- 4,743,995 F. E. Castle, C. P. Hatchett, M. R. Hatchett, and J. S. Heath Disk File With In-Hub Motor
- 4,744,008 V. J. Black, R. S. Charsky, and L. T. Olson Flexible Film Chip Carrier with Decoupling Capacitors
- 4,744,041 T. L. Strunk and G. S. Westerman Method for Testing DC Motors
- 4,748,532 R. D. Commander, B. P. Fenton, and J. G. Ramage Transformer Coupled Power Switching Circuit
- 4,769,761 R. W. Downes and W. E. Smith Apparatus and Method for Isolating and Predicting Errors in a Local Area Network
- 4,789,914 N. G. Ainslie, V. A. Brusic, D. W. Chapman, L. T. Romankiw, and R. K. Wilmer Thin Film Magnetic Read-Write Head/Arm Assemblies
- 4,789,926 D. A. Clarke Digital Data Processing Arbitration System
- 4,789,934 S. C. Gundersen and T. K. Worthington Signature Verification Algorithm
- 4,789,949 J. W. Malcolm Printer Throughput
- 4,789,954 H. Iida, J. Mamiya, and Y. Morimoto Method for Generating Quadratic Curve Signal
- 4,789,962 R. E. Berry, S. E. Johnson, and T. M. Ruiz Methods of Displaying Help Information Nearest to an Operation Point at Which the Help Information Is Requested
- 4,789,972 D. M. Oldham Selectively Controlling the Erasure in a Magneto-Optic Recording Medium
- 4,790,015 P. Callens and C. Galand Multirate Digital Transmission Method and Device for Implementing Said Method
- 4,790,467 D. K. Rex and J. P. Ruse Web Feed Mechanism and Door with Static Protrusions
- 4,790,612 L. D. Dickson Method and Apparatus for Copying Holographic Disks
- 4,790,672 S. R. Komplin Pressed Sleeve Bearing
- 4,791,261 R. R. Phinney and D. C. Strippe Crucible for Evaporation of Metallic Film
- 4,791,403 J. L. Mitchell, W. P. Pennebaker, and G. Goertzel Log Encoder/Decoder System
- 4,791,440 J. M. Eldridge, G. S. Keller, F. C. Lee, G. N. Nelson, and G. Olive Thermal Drop-on-Demand Ink Jet Print Head
- 4,791,555 L. C. Garcia, D. C. Tjon-Pian-Gi, S. G. Tucker, and M. W. Zajac Vector Processing Unit
- 4,791,558 G. J. Chaitin, C. H. Hoagland, and M. J. Stephenson System and Method for Generating an Object Module in a First Format and then Converting the First Format into a Format Which is Loadable into a Selected Computer

4,791,629	C. A. Burns, C. H. DeCoursey, and H. H. Junker	Communications Switching System
4,791,631	J.-C. J. E. Baumert, G. C. Bjorklund, W. Lenth, W. P. Risk III, and F. M. Schellenberg	Wide Tolerance, Modulated Blue Laser Source
4,791,676	M. D. Flickner and K. M. Ali Mohiuddin	Method and Means for Efficiently Handling Boundary Conditions in Connected Component Labeling
4,792,204	H. Praeur, A. H. Johnson, D. Schulz, and P. Pohl	Process and Apparatus for Elimination of Tolerance Dependent Variations of a Selectable Spacing Between Components in Optical Communication Equipment
4,792,704	K. G. Lobb, T. J. Schmerbeck, B. A. Schuelke, and M. O. Sutton	Scaled Voltage Level Translator Circuit
4,792,728	I. F. Chang, R. I. Feigenblatt, W. E. Howard, and E. I. Gordon	Cathodoluminescent Garnet Lamp
4,792,890	B. E. Blair and M. H. Weiss	Method for Resolving Conflicts Between Interrupt Sources Sharing the Same Priority Level
4,792,895	P. H. Tallman	Instruction Processing in Higher Level Virtual Machines by a Real Machine
4,792,954	R. B. Arps and E. D. Karnin	Concurrent Detection of Errors in Arithmetic Data Compression Coding
4,792,999	G. R. Stilwell, Jr.	Wavelength Agile Optical Receiver
4,793,895	C. W. Kaanta and M. A. Leach	In Situ Conductivity Monitoring Technique for Chemical/Mechanical Planarization Endpoint Detection
4,794,087	B. Despax and E. Kay	Circuit Writing Process
4,794,389	M. R. Luck and M. J. Pavicic	Attribute Hierarchy System
4,794,515	L. M. Hornung	Protection of Data in a Multiprogramming Data Processing System
4,794,516	D. J. Auerbach, T. C. Chen, and W. J. Paul	Method and Apparatus for Communicating Data Between a Host and a Plurality of Parallel Processors
4,794,517	G. D. Jones, L. D. Larsen, and D. J. Esteban	Three-Phased Pipelined Signal Processor
4,794,522	R. O. Simpson	Method for Detecting Modified Object Code in an Emulator
4,794,560	A. E. Bell, G. C. Bjorklund, and B. H. Schechtman	Eraseable Self-Biasing Thermal Magneto-Optic Medium
4,794,581	R. Andresen	Lens Support System Enabling Focusing and Tracking Motions Employing a Unitary Lens Holder
4,794,586	H.-E. Korth	Rotary Access Arm for Optical Disk
4,794,594	J.-L. Picard	Method and System of Routing Data Blocks in Data Communication Networks
4,794,863	S. M. Gates, M. Liehr, M. G. E. G. Renier, and G. W. Rubloff	Motive Structure for Transporting Workpieces
4,794,981	T. Mizuno	Cooling System
4,796,069	N. G. Anantha, H. S. Bhatia, S. P. Gauer, and J. L. Mauer IV	Schottky Diode Having Limited Area Self-Aligned Guard Ring and Method for Making Same
4,796,078	D. W. Phelps, Jr., R. J. Redmond, and W. C. Ward	Peripheral/Area Wire Bonding Technique
4,796,082	M. Murakami and W. H. Price	Thermally Stable Ohmic Contact for Gallium Arsenide
4,796,206	J. A. Boscove, H. L. Kurtz, J. E. Prince, and W. P. Wiegand	Computer Assisted Vehicle Service Featuring Signature Analysis and Artificial Intelligence
4,796,222	F. J. Aichelmann, Jr. and V. F. Sollitto, Jr.	Memory Structure for Nonsequential Storage of Block Bytes in Multi-Bit Chips
4,796,357	T. M. Smith	Method and Apparatus for Positioning Electrical Components
4,797,178	V. Q. Bui, K. K. Chan, J. G. Hoffarth, and V. J. Malueg	Plasma Etch Enhancement With Large Mass Inert Gas
4,797,804	L. R. Rockett, Jr.	High Density, High Performance, Single Event Upset Immune Data Storage Cell
4,797,814	J. G. Brenza	Variable Address Mode Cache
4,797,842	L. R. Nackman and V. Srinivasan	Method of Generating Finite Elements Using the Symmetric Axis Transform
4,797,938	T. A. Will	Method of Identifying Magnetic Ink (MICR) Characters
4,798,701	L. D. David	Method of Synthesizing Amorphous Group IIIA-Group VA Compounds
4,798,919	M. Miessler and R. Pascual	Graphics Input Tablet with Three-Dimensional Data
4,798,976	J. J. Curtin, J. A. Dorler, G. J. Jordy, and K. L. Leiner	Logic Redundancy Circuit Scheme
4,799,056	E. Hattori, T. Iwami, Y. Miyazaki, and R. Ohbuchi	Display System Having Extended Raster Operation Circuitry
4,799,061	D. G. Abraham, G. P. Double, and S. W. Neckyfarow	Secure Component Authentication System
4,799,105	J. L. Mitchell and W. B. Pennebaker	Modified Technique for Suppression of Flicker in Interlaced Video Images
4,799,115	L. S. Rogers and A. W. Vinal	Method and Apparatus for Tolerating Track Misregistration Systems in Twin Track Vertical Recording Systems
4,799,119	R. V. Rossi, S. F. Starcke, and D. A. Swagel	Flexible Circuit Magnetic Core Winding for a Core Member

4,799,219	J. Calvignac and P. Secondo	Pseudo-Synchronous Transport Mechanism in a Communication Network
4,799,242	J. C. Vermeulen	Multi-Mode Dynamic Code Assignment for Data Compression
4,799,269	H. Li	Table Lookup Addressing by Dichotomy Window Generation
4,799,616	J. P. Simpson, G. L. Newman, J. M. Larnard, and A. J. Emerick	Solder Leveling Method and Apparatus
4,799,811	J. L. Beck, M. H. Doyle, R. W. Early, T. W. Ringle, and D. R. Smith	Automatic Relocate on Continuation of Document Payout
4,799,983	K. S. Desai	Multilayer Ceramic Substrate and Process for Forming Thereof
4,799,990	M. L. Kerbaugh, C. W. Koburger III, J. B. Lasky, P. C. Parries, and F. R. White	Method of Self-Aligning a Trench Isolation Structure to an Implanted Well Region
4,800,152	R. D. Allen, J. M. J. Frechet, and R. J. Twieg	Negative Resist Compositions
4,800,256	E. C. Broockman, R. T. Cato, W. D. Gregory, Jr., and G. J. Laurer	Halographic Scanner Having Adjustable Sampling Rate
4,800,397	A. Afzali-Ardakani, M. Desai, B. J. Factor, J.-P. Hoekstra, and K. S. Pennington	Metal Transfer to Form Printing Master Plate or Printed Circuit Board
4,800,564	J. J. DeFazio and T. G. McNamara	High Performance Clock System Error Detection and Fault Isolation
4,801,870	E. B. Eichelberger, E. Lindbloom, F. Motika, and J. A. Waicukauski	Weighted Random Pattern Testing Apparatus and Method
4,801,984	J. M. Woodall	Semiconductor Ohmic Contact
4,802,062	A. Blum, M. Briska, and K. Najmann	Integrated Wiring System for VLSI
4,802,091	J. Cocker and P. W. Markstein	Method for Improving the Efficiency of Arithmetic Code Generation in an Optimizing Compiler Using the Technique of Reassociation
4,802,099	J. C. Logue	Physical Parameter Balancing of Circuit Islands in Integrated Circuit Wafers
4,802,968	H. A. Hendrix, H. W. Schmidt, Jr., and E. S. Ward	RF Plasma Processing Apparatus
4,803,110	K. Y. Ahn, S. Basavaiah, S. B. Brodsky, C. A. Cortellino, and J. E. Levine	Coated Mask for Photolithographic Construction of Electric Circuits
4,803,181	P. L. Buchmann, P. Vettiger, and B. J. Van Zeghbroeck	Process for Forming Sub-Micrometer Patterns Using Silylation of Resist Side Walls
4,803,539	P. A. Psaras, K.-N. Tu, and R. D. Thompson	Dopant Control of Metal Silicide Formation
4,803,592	D. J. Ashley	Power Control and Fault Isolation Indicator
4,803,595	C. J. Kraus	Interproser Chip Technique for Making Engineering Changes Between Interconnected Semiconductor Chips
4,803,609	J. B. Gillett and J. H. Spreen	D. C. to D. C. Converter
4,803,615	W. M. Johnson	Microcode Control of a Parallel Architecture Microprocessor
4,803,651	J. T. Galkowski	Method for Encoding and Decoding Acyclic, Linked-List Data Structures for Efficient Storage, Retrieval and Searching
4,803,720	D. C. Newell, K. F. Schroeder, and B. J. Wilkie	Dual Plane Cross Point Switch Architecture for a Micro-PBX
4,804,909	H.-W. Fink	Atto-Amperemeter
4,804,959	T. Makansi, C. M. Melas, A. M. Patel, and S. H. Souther	Method and Apparatus Using Multiple Codes to Increase Storage Capacity
4,804,981	R. Prakash and L. L. Wolfe	Aspheric Lens for Polygon Mirror Tilt Error Correction and Scan Bow Correction in an Electrophotographic Printer
4,805,116	B. C. Liang and J. Gonzalez-Lopez	Interpolated Display Characteristic Value Generator
4,805,117	A. M. Fiore, B. C. Hempel, G. D. Laib, and B. C. Liang	Method for Controlling Concatenation of Transformation Matrices in a Graphics Display System
4,805,134	S. B. Calo, K. Kanna, S. S. Soo, T. G. Burket, and J. W. Wiley, Jr.	Electronic System for Accessing Graphical and Textual Information
4,805,142	C. L. Bertin and H. N. Kotecha	Multiple ROM Data State, Read/Write Memory Cell
4,805,179	C. S. Harder, H. Jaekel, and H. P. Meier	Transverse Junction Stripe Laser
4,805,209	W. T. Baker, Jr., C. M. Buffum, C. H. Jolissaint, and G. W. Kerlin	Coordinated Transfer of Voice and Information Through a Digital Switch
4,805,831	L. D. Lipschutz	Bonding Method
4,806,785	M. S. Michail and J. L. Walsh	Half Current Switch with Feedback
4,807,110	J. H. Pomerene, T. R. Puzak, R. N. Rechtschaffen, and F. J. Sparacio	Prefetching System for a Cache Having a Second Directory for Sequentially Accessed Blocks
4,807,111	E. I. Cohen and B. R. Pierce	Dynamic Queueing Method
4,807,154	K. J. Scully and H. S. Singh	Method for Developing Automatic Replies in an Interactive Electronic Calendaring System
4,807,155	C. M. N. Cree, G. J. Landry, K. J. Scully, and H. S. Singh	Electronic Calendaring Method for Confirmation of Resource Availability During Event Calendaring
4,807,195	R. E. Busch and E. P. Thoma	Apparatus and Method for Providing a Dual Sense Amplifier with Divided Bit Line Isolation
4,807,282	H. Kazan and R. W. Kohake	Programmable P/C Compatible Communications Card
4,807,970	R. D. Dube and S. Yao	Holograms in Photorefractive Materials
4,808,365	B. M. J. Kellner and S. J. Scilla	Method for Reducing Edge Curl on Green Sheets
4,808,431	R. G. Rickert	Method for Controlling Plating on Seeded Surfaces

4,808,435	M. E. Cropp, P. de Prado, and K. S. Desai	Screen Printing Method for Producing Lines of Uniform Width and Height
4,808,511	S. J. Holmes	Vapor Phase Photoresist Silylation Process
4,808,545	K. Balasubramanyam, R. R. Joseph, and R. B. Renbeck	High Speed GaAs MESFET Having Refractory Contacts and a Self-Aligned Cold Gate Fabrication Process
4,808,840	P. W. Chung and N. N. Wang	Dynamic Edge-Triggered Latch
4,808,986	R. L. Mansfield, M. Segre, A. K. Spencer, and J. C. St. Clair	Graphics Display System with Memory Array Access
4,809,102	M. R. Hatchett and J. S. Heath	Disk File with Air Filtration System
4,809,109	J. K. Howard, M. F. Toney, and C. H. Tsang	Magnetoresistive Read Transducer and Method for Making the Improved Transducer
4,809,155	M. L. Costes, G. Dalbousiere, and K. J. Barker	Very High Speed Line Adapter for a Communication Controller
4,809,157	J. H. Eilert, J. A. Frey, Y.-S. Tan, and J. H. Warnes	Dynamic Assignment of Affinity for Vector Tasks
4,816,814	L. Lumelsky	Vector Generator with Direction Independent Drawing Speed for All-Point-Addressable Raster Displays
4,819,038	P. M. Alt	TFT Array for Liquid Crystal Displays Allowing In-Process Testing
4,819,091	B. Brezoczky and E. Hopner	High Speed Magnetic Disk Contact Recording System
4,821,125	T. C. Christensen, J. D. Coker, E. A. Cunningham, R. C. Jaworski, G. J. Kerwin, D. C. Palmer, and J. R. Roepke	Compensation of Write Current and Delta-V For Recording Component and Radial Position
4,821,145	W. D. Corfits, C. J. Mosley, J. R. Rasmussen, and S. E. Wheeler	Pluggable Assembly for Printed Circuit Cards
4,821,146	L. M. Behrens, N. A. Blohm, R. L. Cimijotti, W. D. Corfits, and J. R. Rasmussen	Plugable Interposer and Printed Circuit Card Carrier
4,821,178	A. L. Levin, D. W. Rain, and D. J. Thomas	Internal Performance Monitoring by Event Sampling
4,821,196	T. K. Collopy and D. F. Haire	High Resolution Automatic Focus Correction Electronic Subsystem for E-Beam Lithography
4,821,209	B. C. Hempel and B. C. Liang	Data Transformation and Clipping in a Graphics Display System
4,823,304	B. J. Frantz and S. E. Hellstrom	Method of Providing Synchronous Message Exchange in an Asynchronous Operating Environment