

Recent IBM Patents

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

Germany

1,574,666 C. H. Schuenemann
1,588,335 F. Tsui
1,817,481 S. Wiedmann and H. Berger
2,109,471 F. Poelderl, K. Berkemer, G. Wilke,
L. End and P. U. Frasch
2,421,219 C. H. Schuenemann, W. Spruth,
G. Skudelny, V. Zimmermann,
B. Bechtle and H. Weis
2,528,700 K. Najmann, K. Heuber,
S. K. Wiedmann and W. Klein

Improvements in Function Generators
Arrangement for Controlling the Switching of Power Supply
Monolithic Semiconductor Memory
A Coating Composition
Method of Controlling a Stepper Motor
Test Circuit for Integrated Semiconductor Circuits

Switzerland

584,422 K. Daetwyler and M. Gasser
584,488 C. J. Jenny and K. A. Kummerle

New Photo-resist Masking Process for Thick Films
Arrangement for Switching of Data and Method for Operating

United Kingdom

1,445,414 D. M. Taub and C. E. Owen
1,448,099 D. M. Taub

Input/Output Control Apparatus
Digital Signal Transmission System

United States

3,986,010 L. G. Lankford and W. R. Whittle
3,988,722 G. E. Keefe, M. H. Kryder and
Y. S. Lin
3,990,776 S. C.-C. Tseng and A. R. Reisinger
3,990,981 Z. Kovac and B. A. Gardineer
3,991,389 J. D. Dwire and T. H. Porter, Jr.
3,991,405 W. W. Boyd, W. F. Rogers and
J. W. Toups
3,991,408 A. W. Holmes, Jr., G. B. Long,
R. C. Paddock, S. C. Pi and
D. W. Price
3,992,579 H. Dym and S. F. Kambic
3,992,637 B. M. Cassidy and R. S. Hockedy
3,992,701 S. A. Abbas and R. C. Dockerty
3,992,712 F. H. Dill, G. J. Fan and
R. A. Toupin
3,992,713 J. M. Carmichael, R. S. Heard,
H. P. Heibein, J. A. Lowy and
R. W. McCornack
3,992,716 T. H. DiStefano
3,992,894 V. W. Antonetti, G. R. Arent and
O. R. Gupta
3,993,018 J. R. Kranik and W. F. Mueller
3,993,123 R. C. Chu, O. R. Gupta,
U.-P. Hwang and R. E. Simons
3,993,917 H. L. Kalter
3,993,919 D. T. Cox, J. B. Damerell,
G. J. Kelly and R. A. Wood
3,993,934 T. H. Baker, M. Ghafghaichi,
R. C. Stevens and D. Tuman
3,993,957 D. W. Davenport
3,994,017 E. D. Barkhuff, D. S. Borm,
B. W. McGinnis and
B. E. Rosenlund

Automatic Tool Deflection Calibration System
Single Sided, High Density Bubble Domain Propagation Device
Magneto-Optical Digital Light Deflector
Water Based Magnetic Inks and the Manufacture Thereof
Digital Frequency Shift Key Modulator
Margin Adjusting of Textual Codes in a Memory
Self-Sequencing Memory
Tablet System with Digital Activation
Unclocked Sense Amplifier
Non-Volatile Memory Cell and Array Using Substrate Current
Method and Apparatus for Recording Information on a Recording
Surface
Ink Jet Printing System with Pedestal Synchronization
Method and Apparatus for Propagating Potential Inversion Wells
Inter-Active Dual Loop Cooling System
Centrifugal Support for Workpieces
Gas Encapsulated Cooling Module
Parameter Independent FET Sense Amplifier
Programmable Latch and Other Circuits for Logic Arrays
Integrated Circuit Structure Having a Plurality of Separable Circuits
Clock Converter Circuit
Random Access Disk File with Axial Translation of Disks and End
Plate

3,994,487	H. P. Wicklund	Sheet Handling Apparatus
3,994,559	J. D. Crow and E. G.-H. Lean	Bidirectional Guided Mode Optical Film-Fiber Coupler
3,994,793	J. M. Harvilchuck, J. S. Logan, W. C. Metzger and P. M. Schaible	Reactive Ion Etching of Aluminum
3,995,171	G. Sonoda	Decoder Driver Circuit for Monolithic Memories
3,995,172	L. B. Freeman, R. J. Incerto and J. A. Petrosky, Jr.	Enhancement- and Depletion-Type Field Effect Transistors Connected in Parallel
3,995,175	E. S. Hoyt and J. Zauchner	High Impedance Voltage Probe
3,995,206	J. Aronstein, A. Leoff, J. J. Murphy and W. S. Ruder	Apparatus for Transferring Articles Through Various Processing Sectors of a Manufacturing System
3,995,215	W. M. Chu and G. Sonoda	Test Technique for Semiconductor Memory Array
3,995,216	B. H. Yun	Technique for Measuring Surface States in Metal-Insulator- Semiconductor Structures
3,995,253	T. H. Morrin, II and D. C. Van Voorhis	Method and Apparatus for Accessing Horizontal Sequences, Vertical Sequences, and Rectangular Subarrays from an Array Stored in a Modified Word Organized Random Access Memory System
3,995,254	W. S. Rosenbaum	Digital Reference Matrix for Word Verification
3,995,264	N. K. Ouchi	Apparatus for Encoding and Decoding Binary Data in a Modified Zero Modulation Data Code
3,995,301	I. E. Magdo	Novel Integratable Schottky Barrier Structure and a Method for the Fabrication Thereof
3,995,307	C. N. Alcorn, R. J. DeFilippi, J. D. Henke and R. N. Liang	Integrated Monolithic Switch for High Voltage Applications
3,995,517	M. E. Smith	Method and Apparatus for Obtaining Desired Batch Weight in a Solid Slicing Control System
3,996,095	K. Y. Ahn, C. H. Bajorek, R. Rosenberg and K.-N. Tu	Epitaxial Process of Forming Ferrite, Fe_3O_4 and Fe_2O_3 Thin Films on Special Materials
3,996,393	C. A. Cortellino, E. Gipstein, W. A. Hewett, D. E. Johnson and W. M. Moreau	Positive Polymeric Electron Beam Resists of Very Great Sensitivity
3,996,449	C. R. Attanasio and L. A. Belady	Operating System Authenticator
3,996,481	W. M. Chu and J. M. Lee	FET Load Gate Compensator
3,996,492	J. C. McGroddy	Two-Dimensional Integrated Injection Laser Array
3,996,528	J. M. Blum, E. G. H. Lean and J. C. McGroddy	Folded Cavity Injection Laser
3,996,530	C. H. Feistel and P. T. Gianos	Butler Oscillator
3,996,559	T. H. Morrin and D. C. Van Voorhis	Method and Apparatus for Accessing Horizontal Sequences, Vertical Sequences and Regularly Spaced Rectangular Subarrays from an Array Stored in a Modified Word Organized Random Access Memory System
3,996,564	M. Kerrigan, G. Lebizay, O. L. MacSorley and A. Weiss	Input/Output Port Control
3,996,571	H. Chang	Double Layer Bubble Domain Lattice System
3,996,572	G. E. Keefe, Y. S. Lin and L. L. Rosier	Very High Density Gapless Propagation Structure for Bubble Domains
3,996,577	T.-L. Hsu	Method and Apparatus for the Controlled Generation of Wall-Encoded Magnetic Bubble Domains
3,996,585	W. J. Hogan and A. A. Schwartz	Video Generator Circuit for a Dynamic Digital Television Display
3,996,600	N. A. Patrin	Charge Coupled Optical Scanner with Blooming Control
3,996,615	G. N. Nelson, F. E. Talke and R. C. Tseng	Rotary Air Bearing Head with Leading Edge Controlling Air Bearing
3,997,113	W. B. Pennebaker, Jr.	High Frequency Alternating Field Charging of Aerosols
3,997,846	D. K. Coultas, J. H. Keller and J. R. Winnard	Method and Apparatus for Electrostatic Deflection of High Current Ion Beams in Scanning Apparatus
3,997,876	D. I. Frush	Apparatus and Method for Avoiding Defects in the Recording Medium within a Peripheral Storage System
3,997,880	T. C. Chen and C. Tung	Apparatus and Machine Implementable Method for the Dynamic Rearrangement of Plural Bit Equal-Length Records
3,997,909	A. W. Vinal	High Carrier Velocity Magnetic Sensor
3,997,963	J. Riseman	Novel Beam-Lead Integrated Circuit Structure and Method for Making the Same Including Automatic Registration of Beam-Leads with Corresponding Dielectric Substrate Leads
3,998,310	M. S. Chaudhry	Apparatus for Recording Data In Arabic Script
3,998,311	J. C. Greek, Jr. and H. C. Tanner	Indicating Entry into a Variable Width Right Margin Zone
3,998,674	D. P. Cameron and P. J. Tsang	Method for Forming Recessed Regions of Thermally Oxidized Silicon and Structures Thereof Utilizing Anisotropic Etching
3,998,785	J. F. Stone	Anti-Fungal and/or Anti-Bacterial Hardware for Ink Printing Apparatus
3,999,004	O. I. Chirino, J. Hromek, K. C. Joshi and G. C. Phillips, Jr.	Multilayer Ceramic Substrate Structure
3,999,012	H. Dym	Graphic Entry Tablet with Improved Addressing

3,999,052	D. N. Gooding and E. M. Shimp	Upper Bounds Address Checking System for Providing Storage Protection for a Digital Data Processor
3,999,062	H. M. Demsky, E. S. Mathisen, T. R. Owen and A. H. Tong	Spectrophotometer for Dual Mode Fluorescence Analysis
3,999,097	W. C. Ko, A. Schien and J. R. Winnard	Ion Implantation Apparatus Utilizing Multiple Aperture Source Plate and Single Aperture Accel-Decel System
3,999,105	W. B. Archey, R. D. Audi, R. J. Clark and R. J. Redmond	Liquid Encapsulated Integrated Circuit Package
3,999,150	E. S. Caragliano and H. H. Nick	Miniaturized Strip-Line Directional Coupler Package Having Spirally Wound Coupling Lines
3,999,168	G. I. Findley, K. D. Cummings and T. L. Anderson	Intermixed Pitches in a Buffered Printer
3,999,179	E. S. Prame	Display Panel for Running Characters with Optical Phase Shift
3,999,203	S. K. Lahiri	Josephson Junction Device Having Intermetallic in Electrodes
3,999,214	E. E. Cass	Wireable Planar Integrated Circuit Chip Structure
3,999,514	J. J. Abbott, C. A. Campbell, A. H. Caudill and J. A. Thompson	Magnetic Brush Developer
3,999,838	G. J. Sprokel	Beam Addressed Liquid Crystal Cells
3,999,860	H. M. Demsky, E. S. Mathisen, R. C. Millevoy, P. A. Schumann, Jr. and A. H. Tong	Apparatus for Textile Color Analysis
3,999,864	W. E. Mutter	Gloss Measuring Instrument
3,999,866	E. S. Mathisen	Wafer Test System with Integrated Calibration
4,000,016	D. J. Lazzarini and F. H. Sarnacki	Water Soluble Fluxes
4,000,030	T. F. Ciszek	Method for Drawing a Monocrystal from a Melt Formed about a Wettable Projection
4,000,251	M. Briska and W. Hoffmeister	Method of Purifying Ammonium Fluoride Solutions
4,000,440	A. V. Hall, M. H. Perkins, H. C. Pfeiffer, E. V. Weber and O. C. Woodard	Method and Apparatus for Controlling Brightness and Alignment of a Beam of Charged Particles
4,000,486	R. R. Schomburg	Full Page, Raster Scan, Proportional Space Character Generator
4,000,509	R. A. Jarvela	High Density Air Cooled Wafer Package Having Improved Thermal Dissipation
4,000,565	A. W. Overby and D. P. Parks	Digital Audio Output Device
4,000,801	H. K. Baumeister, R. A. Sebrosky and W. R. Wagner	Print Wire Attachment
4,001,049	J. E. Baglin, T. H. DiStefano and K.-N. Tu	Method for Improving Dielectric Breakdown Strength of Insulating-Glassy-Material Layer of a Device Including Ion Implantation Therein
4,001,061	K. Y. Ahn, M. Hatzakis and J. V. Powers	Single Lithography for Multiple-Layer Bubble Domain Devices
4,001,504	T. A. Hendrickson	Automatic Terminal Data Rate Selection
4,001,556	G. A. Folchi, S. S. Wang, P. M. Will and M. M. Zloof	Computer Controlled Pneumatic Retractable Search Sensor
4,001,601	S. E. Schuster	Two Bit Partitioning Circuit for a Dynamic, Programmed Logic Array
4,001,612	T. Aoki, P. Evrenidis, R. Igarashi and S. Ogura	Linear Resistance Element for LSI Circuitry
4,001,673	G. G. Barrett, L. M. Hornung and C. C. Jones, Jr.	Method of Testing and Repairing Magnetic Bubble Domain Chip
4,001,771	H. E. Amrine and R. E. Baker	Intruder Detecting Security System
4,001,787	M. J. Kimmel	Data Processor for Pattern Recognition and the Like
4,001,794	O. Voegeli	Method and Apparatus for Controlled Generation of Wall Topology in Magnetic Domains
4,001,796	O. Voegeli	Bubble Lattice Structure with Barrier
4,001,868	R. C.-C. Liang	Latching Driver Circuit and Structure for a Gas Panel Display