

Recent IBM Patents

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

France		
7,315,792	M. F. Boisseau	Connection for Using a Telephone Exchange
Germany		
1,922,415	W. G. Spruth and C. H. Schuenemann	Electronic Data Processing System with Plural Independent Control Units
1,774,814	J. Bahr and W. Hasler	Data Storage Apparatus
2,261,254	F. Tsui	Charge Regeneration Equipment for a Matrix Store
2,340,814	H. Eaitinger, M. Illi and W. Haug	Address Selection Circuit for Storage Arrays
United States		
3,916,105	W. R. McCray	Pitch Peak Detection Using Linear Prediction
3,916,218	H. H. Berger and S. K. Wiedmann	Integrated Power Supply for Merged Transistor Logic Circuit
3,916,224	R. J. Daniels and A. J. Mennella	Control Utilizing Charging of Bootstrap Circuit to Provide Ramp-up
3,916,266	M. Bennett, C. Nuccio and C. Wurms	Planar Packaging for Integrated Circuits
3,916,299	S. L. Cullen and G. F. Pavlovic	Test System for Determining Ionization Current of Gas Panels
3,916,314	P. A. Franaszek and D. D. Grossman	Non-Linear Filter for Delta Modulator Output Using Shift Register and Table Lookup
3,916,342	H. A. Higuchi and E. L. Mundrick	Square Wave Generating Circuit Arrangement
3,916,387	L. J. Woodrum	Directory Searching Method and Means
3,916,388	E. M. Shimp and N. B. Sliz	Shifting Apparatus for Automatic Data Alignment
3,916,390	J. J. Chang and R. A. Kenyon	Dynamic Memory with Nonvolatile Back-Up Mode
3,916,391	P. L. Gueret	Josephson Junction Memory Using Vortex Modes
3,916,393	T. N. Criscimagna and F. M. Lay	Multicolor Gaseous Discharge Display Device
3,916,402	L. M. Hornung	Synchronization of Display Frames with Primary Power Source
3,916,419	G. J. Fan and R. A. Toupin	Method and Apparatus for Asynchronously Forming Magnetic Liquid Droplets
3,916,440	J. W. Irwin	Resynchronizable Phase-Encoded Recording
3,917,384	J. S. Harper, E. G. Lean, E. A. Spiller and J. S. Wilczynski	High Resolution Lenses for Optical Waveguides
3,917,882	T. A. Sherk	Method for Applying a Dielectric Glass to a Glass Substrate
3,917,913	M. A. Patten	Telephone Calling Signal Translating Circuitry
3,918,033	J. R. Case, D. L. Millican and D. E. Norton	SCR Memory Cell
3,918,049	G. F. Snyder and D. A. Styczinski	Thresholder for Analog Signals
3,918,092	W. J. Rueger	Push-Threading Tape in a Helical Path
3,918,148	I. E. Magdo and S. Magdo	Integrated Circuit Chip Carrier and Method for Forming the Same
3,918,706	J. A. Craft	Pneumatic Sheet Transport and Alignment Mechanism
3,918,968	W. J. Kukla and H. E. Munzel	Electrophotographic Process Utilizing Carrier Particles Coated with a Fluoropolymer in Development
3,919,060	H. B. Pogge and M. R. Poponiak	Method of Fabricating Semiconductor Device Embodying Dielectric Isolation
3,919,447	C. C. Kilmer, Jr. and G. J. Laurer	Spectral Differential Coded Card
3,919,483	A. M. Gindi and D. J. Lang	Parallel Multiplexed Loop Interface for Data Transfer and Control Between Data Processing Systems and Subsystems
3,919,527	A. J. Bowen, L. D. Dickson, J. A. Goretzki, K. E. Hendrickson, D. P. King, T. W. Keuper and R. L. Soderstrom	Omnidirectional Optical Scanner
3,919,565	V. R. Clark, C. D. Goodew, T. W. Keuper and B. H. Price	Overcurrent Sense Circuit
3,919,569	F. H. Gaensslen and P. J. Krick	Dynamic Two Device Memory Cell Which Provides DC Sense Signals
3,919,591	T. N. Criscimagna	Gas Panel with Improved Write-Erase and Sustain Circuits and Operations
3,919,695	D. N. Gooding	Asynchronous Clocking Apparatus
3,919,701	H. Chang, T. C. Chen and C. Tung	Symmetric Switching Functions Using Magnetic Bubble Domains

3,919,717	F. M. Cullen, D. D. Roshon, Jr. and K. A. Snyder	Wear-Resistant Surface for Magnetic Heads Consisting of Diamond Particles
3,920,233	P. E. Stuckert	Spherical Support and Translation Device for Wafers
3,920,483	C. Johnson, Jr., K. San-Mei, H. V. Lillja and E. S.-T. Pan	Method of Ion Implantation Through a Photoresist Mask
3,920,526	J. J. Caricchio, Jr., G. J. Sxenmeyer, Jr. and E. R. York	Process for the Electrodeposition of Ductile Palladium and Electroplating Bath Useful Therefor
3,921,137	C. M. McClearn, Jr. and T. A. E. Miller	Semi-Static Time Division Multiplex Slot Assignment
3,921,143	L. J. Woodrum	Minimal Redundancy Encoding Method and Means
3,921,144	L. J. Woodrum	Odd/Even Boundary Address Alignment System
3,921,165	H. Dym	High Resolution Graphic Data Tablet
3,921,167	J. E. Fox	Capacitive Circuitboard
3,921,217	D. A. Thompson	Three-Legged Magnetic Recording Head Using a Magnetoresistive Element
3,921,285	B. Krall	Method for Joining Microminiature Components to a Carrying Structure
3,921,517	J. G. Barcomb and R. K. Conant	Random Firing of Multiple Width Print Hammers
3,921,572	R. H. Brunner, W. J. Carbone and W. C. Lester	Vacuum Coating Apparatus
3,921,916	E. Bassous	Nozzles Formed in Monocrystalline Silicon
3,922,184	T. H. Baker and M. Ghafghaichi	Method for Forming Openings Through Insulative Layers in the Fabrication of Integrated Circuits
3,921,153	L. A. Belady and R. I. Roth	System and Method for Evaluating Paging Behavior
3,921,340	L. A. Johnson, N. L. Robinson, R. H. Strang and G. G. Vair	Magnetic Head Surface Formation Apparatus and Method
3,923,530	T. A. Sherck and R. R. Tummala	Dielectric Glass Composition
3,923,562	V. A. Dhaka	Process for Producing Monolithic Circuits
3,924,113	C. D. Gill and P. M. Ryan	Electron Beam Registration System
3,924,134	M. F. Uman, J. R. Winnard and H. F. Winters	Double Chamber Ion Source
3,924,144	G. Hadamard	Method for Testing Logic Chips and Logic Chips Adapted Therefor
3,922,382	W. J. Kukla and H. E. Munzel	Method of Manufacturing Carrier Particles
3,922,565	H. H. Berger and S. K. Wiedmann	Monolithically Integrable Digital Basic Circuit
3,922,583	C. Lanza	Method and Means for Increasing the Operating Range of Gas Panel Displays
3,922,707	L. E. Freed, W. J. Nestork and D. Tuman	DC Testing of Integrated Circuits and a Novel Integrated Circuit Structure to Facilitate Such Testing
3,922,708	B. L. Crowder and S.-I. Tan	Method of Producing High Value Ion Implanted Resistors
3,924,156	S. K. Doran and M. H. Perkins	Method and System for Correcting an Aberration of a Beam of Charged Particles
3,924,229	C. C. Liu	Bipolar Digital to Analog Converter Utilizing Two Reference Voltages of the Same Polarity
3,924,243	J. C. Vermeulen	Cross-Field-Partitioning in Array Logic Modules
3,924,264	J. A. Dorler, J. L. Forneris and D. J. Swietek	Schottky Barrier Device and Circuit Application
3,924,268	R. P. McIntosh and H. I. Shahein	High Density Track Follower Control System for Magnetic Disk File
3,924,270	J. M. Kurtzberg	Recursive Shift Register for Controlling a Data Processor
3,924,320	C. Altman, S. G. Chapman and A. V. S. Satya	Method to Improve the Reverse Leakage Characteristics in Metal Semiconductor Contacts
3,924,723	D. W. Cooper and J. B. Unruh	Centering of Textual Character Fields About a Point
3,924,725	R. F. Kuhn, T. F. Lyons and J. W. Raider	Dual Array Disc Printer
3,925,106	S.-M. Ku and B. J. Masters	Ion Bombardment Method of Producing Integrated Semiconductor Circuit Resistors of Low Temperature Coefficient of Resistance
3,925,107	R. A. Gdula, S. I. Raider and M. Revitz	Method of Stabilizing MOS Devices
3,925,119	J. W. Philbrick and W. C. Wuestenhoefer	Method for Vapor Deposition of Gallium Arsenide Phosphide upon Gallium Arsenide Substrates
3,925,717	J. R. Kinnard	Inductive Base Drive for Transistor Switching in DC Converters
3,925,761	A. M. Chaires, J. M. Ciconte, A. H. Ett, J. J. Hilliard and W. S. Rosenbaum	Binary Reference Matrix for a Character Recognition Machine
3,925,768	Y. S. Lin	Gapless Double-sided Propagation Structure for Bubble Domain Devices
3,925,780	D. C. Van Voorhis	Apparatus for Data Compression Encoding and Decoding
3,926,088	S. A. Davis, K. H. Dougherty, A. D. Levit, T. A. Hendrickson and K. R. Sanderson	Apparatus for Processing Music As Data

3,926,312	J. F. Elliott and J. S. Johnson	Disk Pack Enclosure
3,926,500	A. Frosch and H. E. Korth	Method of Increasing the Depth of Focus and or the Resolution of Light Microscopes by Illuminating and Imaging Through a Diaphragm With Pinhole Apertures
3,926,763	A. Reisman	Method for Fabricating a Gas Discharge Panel Structure
3,927,311	T. C. Chen and I. T. Ho	Arithmetic System for Halving and Doubling Decimal Numbers
3,927,371	J. N. Pomeranz and H. D. Schnurmann	Test System for Large Scale Integrated Circuits
3,927,410	W. T. Pimbley	Ink Jet Nozzle
3,927,926	J. B. Powell	Spiral Braid Connector
3,928,051	J. M. Brownlow, R. C. Buchanan and R. R. Tummala	Dielectric Glasses
3,928,781	R. J. Edwards, B. Z. Hairabedian and N. M. Poley	Gaseous Discharge Display Panel Including Pilot Electrodes and Radioactive Wire
3,928,830	L. R. Bellamy and K. L. Hotaling	Diagnostic System for Field Replaceable Units
3,928,855	E. F. Helinski, H. C. Lee and J. L. Zable	Method and Apparatus for Controlling Satellites in an Ink Jet Printing System
3,928,857	R. S. Carter, S. G. Hogan, Jr., W. L. Leung, B. L. McGilvray and R. H. Werner	Instruction Fetch Apparatus With Combined Look-Ahead and Look-Behind Capability
3,929,071	D. R. Cialone, G. W. Hieronymus, H. R. Kruspe, R. W. McCornack, N. K. Perkins and D. L. West	Ink Recirculating System for Ink Jet Printing Apparatus
3,929,328	L. F. Knappe, L. P. Sapetta, G. J. Stroebe and M. A. Wilke	Document Transport Device
3,929,529	M. R. Poponiak	Method for Gettering Contaminants in Monocrystalline Silicon
3,930,181	H. C. Pfeiffer	Lens and Deflection Unit Arrangement for Electron Beam Columns
3,930,241	C. R. Guarnieri, K. Lee and A. Onton	Tailored Anisotropy Magnetic Bubble Domain Material
3,930,243	T.-L. Hsu and H. L. Hu	Method and Apparatus for Stabilizing a Bubble Domain System
3,930,244	O. Voegeli	Bubble Domain Lattice Buffer Arrangement
3,930,729	J. B. Gunn	Interferometer Apparatus Incorporating a Spherical Element of Index of Refraction of Two
3,930,857	D. J. Bendz, G. A. Bendz and A. M. Wildman	Resist Process
3,930,870	J. S. Basi	Silicon Polishing Solution Preparation
3,931,435	E. Gipstein, W. M. Moreau and O. U. Need, III	Electron Beam Positive Resists Containing Acetate Polymers
3,931,531	G. P. Check and R. F. Dimmick	Overlapped Signal Transition Counter
3,931,555	G. J. Dohanich, Jr., J. C. Rohde and G. A. Trudgen	Acceleration Control System for a DC Motor
3,931,639	N. K. Arter, G. W. Brock, H. C. Jackson and J. W. Leggate	Transverse Track Location Device with Calibrated Stepper Motor
3,931,641	R. B. Watrous	Transducer Suspension Mount Apparatus
3,931,645	P. D. Dodd and D. E. Griffiths	Flexible Disk Storage Apparatus Having Disks of Various Radii for Enhancing Axial Disk Location
3,931,880	T. E. Ayer	Document Handling Apparatus
3,932,026	G. J. Sprokel	Liquid Crystal Display Assembly Having Dielectric Coated Electrodes
3,932,847	R. M. Smith	Time-of-day Clock Synchronization Among Multiple Processing Units
3,932,894	N. K. Arter, T. F. Eichhorn and C. H. Kalthoff	Magnetic Record Member for Use With Rotating Head Magnetic Recording Apparatus