

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

2,050,590 F. Schedewie
2,102,027 F. Schedewie
2,629,709 F. C. Brunner, H. H. Steinbeck, and F. Schwerdt
2,962,661,709 P. Nehmiz
2,962,897,509 H. Drescher
2,963,166,109 K. Arendt, W. Hasler, and K. H. Schaller
2,963,185,409 D. Wagner
2,963,242,609 A. Bohg
2,963,367,809 H. Bohlen
2,963,405,709 M. Briska

Projection of Images
Light Beam Edge Detection
Method of Making an Amorphous Silicon Diode Free of Metal Ions
Exposure Process
Arrangement for Determining the Length of Arbitrary Shift Registers
Circuit Arrangement for Synchronizing the Times of Occurrence of the Print Hammer Impact with the Arrival of the Print Type
Apparatus for Dark Field Illumination
Solar Collection with Lens Array
Method of Shadow Printing Exposure
Method of Boron Doping Silicon Bodies

Switzerland

630,468 F. Gfeller and P. Chevillat

A Coupling Plug with Uncoupling Arrangement for Light Conducting Fibers

United States

4,328,607 H. B. W. Denner and A. R. Tietze
4,329,071 S. L. Applegate and S. Dyer
4,329,072 D. J. Kacmarcik
4,329,073 J. A. Craft
4,329,075 S. L. Applegate and J. J. Molloy
4,329,186 H. N. Kotecha and F. H. DeLaMoneda
4,329,534 R. T. Hodgson and H. J. Hovel
4,329,574 A. Jordan, Jr.
4,329,698 N. C. Smith
4,329,706 B. L. Crowder and A. Reisman
4,329,773 H. J. Geipel, Jr. and R. B. Shasteen
4,329,876 W.-H. Chen and E. G. Lean
4,330,217 D. M. Churgovich, W. F. Joest III, W. R. McCray, and E. V. Rutkowski, Jr.
4,330,218 A. B. Habich and R. E. Hunt
4,330,614 W. A. Moyer and R. L. Wood
4,330,803 K. N. Karol
4,330,834 A. S. Murphy
4,330,845 F. J. Damerau
4,330,847 R. E. Kuseski
4,330,848 R. J. Gambino and R. C. Taylor
4,330,853 H. H. Heimeier, W. Klein, E. Klink, and F. C. Wernicke
4,330,857 J. A. Alvarez III, J. M. Bensadon, J. F. Brennen, and R. W. Krug
4,330,858 M. F. Choquet
4,331,504 T. J. Chuang, J. W. Coburn, and E. Kay
4,331,886 F. A. Perner and L. D. Provazek
4,331,887 D. K. Jodus and R. O. Seeger
4,331,964 D. C. VanLokeren
4,332,000 K. E. Petersen

Manufacturing Process for Foil Magnetic Recording Disks
Current Collector for Resistive Ribbon Printers
Ribbon Feed and Lift Mechanism for a Typewriter
Single Use Ribbon Cartridge with Frangible Resistive Element for Restraining the Takeup Spool
Printhead Assembly for Typewriters or the Like
Simultaneously Forming Fully Implanted DMOS Together with Enhancement and Depletion Mode MOSFET Devices
Uniform Incident Light High Voltage Solar Cell Array
Bar Code Candidate Select Circuit
Disposable Cartridge for Ink Drop Printer
Doped Polysilicon Silicide Semiconductor Integrated Circuit Interconnections
Method of Making Low Leakage Shallow Junction IGFET Devices
Method and Apparatus for Acoustic Scanning Using Bulk Wave Scattering of Bulk Waves by an Acoustic Grating
Line Adjustment Apparatus for a Typewriter
Apparatus for Connecting and Disconnecting a Motor and a Print Element by Pivoting a Ribbon Cartridge
Process for Forming a Patterned Resist Mask
Disk Accessing Apparatus and Method
Graphics Display Apparatus
Guess-Ahead Feature for a Keyboard-Display Terminal Data Input System
Store and Forward Type of Text Processing Unit
Charged Wall Amorphous Magnetic Layers
Method of and Circuit Arrangement for Reading and/or Writing an Integrated Semiconductor Storage with Storage Cells in MTL (I²L) Technology
Dynamically Variable Priority, Variable Position Channels in a TDMA Burst
Time Domain Supervisory Channel for Data Terminal Equipments
Etching Process with Vibrationally Excited SF₆
Current Switch Driving Circuit Arrangements
Current Switch Driving Circuit Arrangements
Dual Cavity Drop Generator
Capacitive Pressure Transducer

4,332,010	B. U. Messina and W. D. Silkman	Cache Synonym Detection and Handling Mechanism
4,332,343	N. G. Koopman, V. C. Marcotte, and S. Teed	Process for In-Situ Modification of Solder Composition
4,332,028	J. H. Joccotton and B. Vanoudheusden	Method of Measuring the Memory Address Access Time (AAT) Utilizing a Data Recirculation Technique, and a Tester for Accomplishing Same
4,332,026	J. A. Alvarez III, J. F. Brennen, and R. W. Krug	Multiple Data Rate Digital Switch for a TDMA Communications Controller
4,332,351	R. M. Kellogg and V. R. Kruger	Blood Fraction Extracting Centrifuge
4,332,461	N. Cail, R. A. Daniels, J. B. Eggerling, and G. B. Lammers	Electrical Drive for Scanning Optics in a Continuously Variable Reduction Copier
4,332,465	T. D. Steury	Balanced Photoconductor Usage Control System
4,332,489	W. L. Dollenmayer	Print Hammer Actuating Device
4,332,627	A. Schmitt and G. Schorer	Method of Eliminating Lattice Defects in a Semiconductor Device
4,332,853	F. C. Hornbeck and J. E. Henning	Conductive Plastic with Metalized Glass Fibers Retained in Partial Clumps
4,333,083	S. F. Aldridge	Electrostatic Drop Sensor with Sensor Diagnostics for Ink Jet Printers
4,333,227	C. T. Horng, M. R. Poponiak, H. S. Rupprecht, and R. O. Schwenker	Process for Fabricating a Self-Aligned Micrometer Bipolar Transistor Device
4,333,639	R. V. Davidge, C. A. Queener, and J. T. Vanderslice	Recirculating Document Feed for Electrophotographic Apparatus
4,333,794	K. D. Beyer and J. S. Logan	Omission of Thick Si_3N_4 Layers in ISA Schemes
4,333,808	A. Bhattacharyya, W.-K. Chu, J. K. Howard, and F. W. Wiedman	Method for Manufacture of Ultra-Thin Film Capacitor
4,333,961	C. A. Bruce, A. M. Homola, and M. R. Lorenz	Preparations of Thin, Aligned Magnetic Coatings
4,334,156	H. Bohlen, H. Engelke, W. Kulcke, P. Nehmiz, and J. Greschner	Method of Shadow Printing Exposure
4,334,158	S. M. Faris	Superconducting Switch and Amplifier Device
4,334,231	J. L. Regehr	Non Impact Display Screen Output Printer
4,334,286	S. C. Kerigan, B. D. Key, and J. Smith	Data Entry Apparatus for Entering Tabular Data Row by Row and Column by Column
4,334,292	H. N. Kotecha	Low Voltage Electrically Erasable Programmable Read Only Memory
4,334,294	K. Heuber and S. K. Wiedmann	Restore Circuit for a Semiconductor Storage
4,334,309	R. D. Bannon and M. M. Bhansali	Error Correcting Code System
4,334,310	G. A. Maley	Noise Suppressing Bilevel Data Signal Driver Circuit Arrangement
4,334,656	R. P. Crawford, P. A. Gilovich, and D. H. McMurtry	Automatic Tape Threading Apparatus for Magnetic Tape Transports
4,334,765	G. A. Clark	Booklet Preparation Utilizing an Electrophotographic Apparatus
4,334,792	W. F. Joest III, W. R. McCray, and E. V. Rutkowski, Jr.	Destination-Referenced Tab, Operations for Typewriters that Store Text
4,334,878	R. S. Cutler and M. T. Moore	Ink Jet Ink Composition
4,334,949	J. G. Ameen, N. P. Franchak, J. Rasile, and D. L. Rivenburgh	Reducing Carbonate Concentration in Aqueous Solution
4,335,189	C. F. Ailotta and M. Ansel	Resolution Standard for Scanning Electron Microscope Comprising Palladium Spines on a Metal Substrate
4,335,390	J. G. Axford	Cathode Ray Tube Printing Apparatus and Method
4,335,426	H. M. Maxwell, R. E. McKay, N. P. Nacheber, Jr., and D. T. Sze	Remote Processor Initialization in a Multi-Station Peer-to-Peer Intercommunication System
4,335,450	D. R. Thomas	Non-Destructive Read Out Field Effect Transistor Memory Cell System
4,335,460	R. D. Bolcavage, A. J. Ferraro, and A. E. Fleek	Printer System Having Parity Checking of Print Hammers Using Software Control
4,335,506	G. T. Chiu, R. R. Joseph, and G. M. Ozols	Method of Forming Aluminum/Copper Alloy Conductors
4,335,858	D. K. N. Cranna	Apparatus for Threading Tape Over a Tape Path Including a Channel Conforming to Said Path
4,335,952	D. J. Conly, D. D. Larson, and S. T. Riddle	Copy Quality Diagnostic Procedure
4,335,967	J. P. Pawletko	Electrolytic Printing Apparatus Including Preheating Pressure Pad Therefor
4,336,088	R. J. Hetherington, G. E. Melvin, S. A. Milkovich, and E. N. Urfer	Method of Fabricating an Improved Multi-Layer Ceramic Substrate
4,336,423	E. Morlec, D. Reynes, and J.-P. Suzzoni	Device for Increasing the Parallel Inductance of a Transformer
4,336,508	T. G. Cole and S. E. Marshall	Voltage Controlled Integrated Circuit Astable Multivibrator
4,336,523	R. Jaggi	Superconductive Switching and Storage Device
4,336,603	H. N. Kotecha and F. W. Wiedman III	Three Terminal Electrically Erasable Programmable Read Only Memory
4,338,138	J. R. Cavaliere, C. T. Horng, R. R. Konian, H. S. Rupprecht, and R. O. Schwenker	Process for Fabricating a Bipolar Transistor
4,338,392	E. M. Engler, J. D. Kuptsis, R. G. Schad, and Y. Tomkiewicz	Class of E-Beam Resists Based on Conducting Organic Charge Transfer Salts

4,338,532	R. J. Houghton	Integrated Delay Circuits
4,338,541	V. D. Beck	Multiple Beam Cathode Ray Tube Having Reduced Off-Axis Aberrations
4,338,588	P. Chevillat and H. R. Schindler	Arrangement for Determining the Optimum Scan Angle for Printed Documents
4,338,622	G. C. Feth, T. H. Ning, D. D. Tang, S. K. Wiedmann, and H. N. Yu	Self-Aligned Semiconductor Circuits and Process Therefor
4,339,210	J. A. Craft and S. A. Okcuoglu	Ribbon Cartridge Loading Mechanism
4,339,477	D. J. Bahr and M. Briska	Process for Preparing a Pigmented Lacquer
4,339,513	D. C. Alvarez, G. C. Bjorklund, and D. M. Burland	Process and Recording Media for Continuous Wave Four-Level, Two-Photon Holography
4,339,522	R. D. Balanson, N. J. Clecak, B. D. Grant, and A. C. Ouano	Ultra-Violet Lithographic Resist Composition and Process
4,339,526	A. I. Baise, G. Czornyj, and A. W. Wu	Acetylene Terminated, Branched Polyphenylene Resist and Protective Coating for Integrated Circuit Devices
4,339,657	D. D. Larson and S. T. Riddle	Error Logging for Automatic Apparatus
4,339,736	P. Burr and B. D. Chase	Convergence Unit for Cathode-Ray Tube
4,339,767	C. T. Horng, R. R. Konian, R. O. Schwenker, and A. W. Wieder	High Performance PNP and NPN Transistor Structure