

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

2,758,143 D. J. Bahr and K. Hartmann
 3,068,214,508 A. Brosch, H. Hinkel, G. Kraus, U. Kuenzel, D. Rogalla, and J. Schneider
 3,068,722,008 K. P. Thiel
 3,068,851,808 A. Stoffel

Winding Device for Webs
 Magnetic Disk Substrate of Fibre-reinforced Plastic

Method of Doping Silicon Bodies Through Indiffusion of Boron
 Apparatus and Method for Selective Electrochemical Etching

United Kingdom

51,092 I. D. Judd
 53,207 A. S. Murphy
 54,587 G. C. Collins and D. Schiffrin
 70,336 I. Golledge, K. C. Bryant-Jeffries, J. V. Pike, and E. V. Vaughan
 70,337 T. H. Bradshaw
 1,018,694 J. A. Wiseman

Cathode Ray Tube Drive Circuitry
 Raster CRT Flicker Reducing Apparatus
 Metal Diphthalocyanine Electrochromic Displays and Electrolytes Therefor
 A Tilttable and/or Rotatable Support for a Display Device
 A Tilttable and/or Rotatable Support for a Display Device
 Data Processing Unit

United States

4,418,473 R. W. Burkhart, A. R. Cox, and J. D. Hartley
 4,418,857 N. G. Ainslie, J. E. Krzanowski, and P. H. Palmateer
 4,418,945 R. M. Kellogg
 4,419,010 A. Grombone and G. W. Van Cleave
 4,419,024 P. A. Bowlds, B. M. Cassidy, A. E. Graham, R. J. Huljak, D. W. Stafford, and D. C. Tao
 4,419,203 J. M. E. Harper, M. Heiblum, and H. R. Kaufman
 4,419,392 D. J. Bahr and M. Briska
 4,419,592 K. S. Norgren and S. E. Stucka
 4,419,714 C. H. Locke
 4,419,739 A. Blum
 4,419,751 J. Cholat-Namy, S. Huon, and P. Thirion

Method of Making Edge Protected Ferrite Core
 High Melting Point Process for Au:Sn:80:20 Brazing Alloy for Chip Carriers
 Sterile Connectors
 Method for Controlling the Toner Concentration in an Electrostatic Copier
 Silicon Dioxide Intermediate Layer in Thermal Transfer Medium
 Apparatus and Method for Neutralizing Ion Beams
 Process for Producing Compact Lacquer Layers for Record Carriers
 Bidirection Data Switch Sequencing Circuit
 Low Inductance Ceramic Capacitor and Method for its Making
 Decentralized Generation of Synchronized Clock Control Signals Having Dynamically Selectable Periods
 Multiport Modem and the Use Thereof in a Method and a System for Testing a Multilevel Communication Network

4,428,284	W. D. Thorne	Band and Hammer Dot Matrix Printer
4,456,235	D. F. Colglazier and E. P. Kollar	Bottom-up Stacker
4,456,293	H. A. Panissidi	Article Gripping Apparatus
4,456,371	B. J. Lin	Optical Projection Printing Threshold Leveling Arrangement
4,456,675	H. R. Anderson, Jr., C. J. Araps, and C. A. Lotsko	Dry Process for Forming Metal Patterns Wherein Metal is Deposited on a Depolymerizable Polymer and Selectively Removed
4,456,712	F. R. Christie and L. R. Daley	Bismaleimide Triazine Composition
4,456,841	C. H. Lam and C. W. Peterson, Jr.	Field Effect Level Sensitive Circuit
4,456,860	G. W. Cann, D. E. Davis, and R. R. Trotter	X-Y Positioning Subsystem Electronics
4,456,915	W. Crooks, C. H. Hafer, and W. J. Weiche	Print Head for High Resolution Electrothermal Printing Apparatus
4,456,936	M. J. Steen and M. N. Zell	Cantilevered Transducer Carriage
4,456,938	H. J. Baasch, R. W. Bishop, P. M. Charlson, J. G. Hunzeker, and C. R. Schwieters	Manufacturing Apparatus for Adjusting the Position of a Magnetic Head in a Flexible Disk Drive
4,456,954	R. J. Bullions III, T. O. Curlee III, P. H. Gum, B. L. McGilvray, and E. L. Richardson	Virtual Machine System with Guest Architecture Emulation Using Hardware TLB's for Plural Level Address Translations
4,456,966	C. R. Bringol and W. L. Kroeger III	Memory System with Flexible Replacement Units
4,456,969	A. M. Herzik, S. S. Hobbs, and J. T. Repass	System for Automatically Hyphenating and Verifying the Spelling of Words in a Multi-Lingual Document
4,456,973	R. G. Carlgren, W. S. Rosenbaum, and A. R. Tannenbaum	Automatic Text Grade Level Analyzer for a Text Processing System
4,456,995	P. M. Ryan	Apparatus for High Speed Fault Mapping of Large Memories
4,458,398	A. D. Goldstein, K. E. Russell, and A. W. Scott	Manufacturing Apparatus for Adjusting the Position of a Magnetic Head in a Flexible Disk Drive
4,458,406	F. H. De La Moneda and T. A. Williams	Making LSI Devices with Double Level Polysilicon Structures
4,458,407	A. J. Hoeg, Jr., C. T. Kroll, and G. B. Stephens	Process for Fabricating Semi-Conductive Oxide Between Two Poly Silicon Gate Electrodes
4,458,409	E. Latta and M. Gasser	Process for Producing Niobium Josephson Junctions
4,458,854	M. E. Richard	Magnetic Clutch Having Apparatus for Centering Magnetic Recording Tape Reel
4,458,895	J. Turcotte	Spherical Recreational Hollow Body
4,458,994	K. Jain and C. G. Willson	High Resolution Optical Lithography Method and Apparatus Having Excimer Laser Light Source and Stimulated Raman Shifting
4,459,049	D. M. Howell, R. A. Kolpek, and L. S. Trevathan	Abbreviated Typing with Special Form Display
4,459,054	W. L. Dollenmayer	Shared Character Selection, Escapement and Line Advance System for Serial Printer
4,459,253	H. Marcar and H. Traeg	Manufacture of Homogeneous Magnetic Recording Structure
4,459,321	K. K. Kim	Process for Applying Closely Overlapped Mutually Protective Barrier Films
4,459,462	J. M. Rakes and E. R. Williams	Drive System for Energizing Elements of a Fixed Bar Printer
4,459,495	T. R. Gheewala	Josephson Current Regulator
4,459,586	J. M. McVey	Method for Structuring High Density Display Font for Display Device of Text Processing System
4,459,609	J. A. Fifield, L. G. Heller, and L. A. Walls	Charge-Stabilized Memory
4,459,675	J. E. Bateson, S. E. Bigbie, B. R. Cavill, and A. A. Nawy	Printer Control System with Error Count Averaging
4,459,678	R. A. McCaskill, J. W. McInroy, and P. D. Waldo	Method and Apparatus for Processing a File of Record Information
4,459,779	J. C. S. Shen	Fixed Abrasive Grinding Media
4,460,436	H. Hiraoka	Deposition of Polymer Films by Means of Ion Beams
4,460,534	R. W. Boehm, W. R. Keelen, and H. Rees	Two-Shot Injection Molding
4,460,851	W. R. Bistline and S. C. Hatcher	Combined Dynamic Focus Circuit Flyback Capacitor
4,460,909	L. W. Bassetti, R. B. Hooker III, and S. Kantor	Method and Apparatus for Enhancing the Resolution of an Electrophotographic Printer
4,460,910	B. A. Chappell, T. I. Chappell, and J. M. Woodall	Heterojunction Semiconductor
4,460,957	L. C. Eggebrecht and J. A. Saenz	Self-Pacing Serial Keyboard Interface for Data Processing System
4,460,960	R. W. Anderson, M. L. Gee, and A. K. McMullen	Transaction Execution System Having Keyboard and Message Customization, Improved Key Function Versatility and Message Segmentation
4,460,972	M. E. Homan, G. K. Machol, and L. M. Warren	Single Chip Microcomputer Selectively Operable in Response to Instructions Stored on the Computer Chip or in Response to Instructions Stored External to the Chip
4,460,984	R. W. Knepper	Memory Array with Switchable Upper and Lower Word Lines
4,460,985	C. R. Hoffman	Sense Amplifier for MOS Static Memory Array
4,461,001	D. C. Bossen and M.-Y. Hsiao	Deterministic Permutation Algorithm
4,461,207	E. F. Helinski	Actuator Mechanism for a Printer or the Like Using Dual Magnets

4,461,237	H. Hinkel, G. Kaus, G. Kraus, U. Kunzel, and R. Muehl	Plasma Reactor for Etching and Coating Substrates
4,462,040	I. T. Ho and J. Riseman	Single Electrode U-MOSFET Random Access Memory
4,462,088	S. W. Giuliani and S. Park	Array Design Using a Four State Cell for Double Density
4,462,102	T. R. Povlick	Method and Apparatus for Checking the Parity of Disassociated Bit Groups