

Recent IBM Patents

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

France

7,014,126	Band Rejection Type Filtering Circuits	<i>A. H. Lautier and F. P. Maddens</i>
7,014,712	System and Process for Routing Information Between a Plurality of Data Transmission Lines	<i>Y. A. Aillerie and G. Lebizay</i>
7,018,627	Additional Signal Injection Mode for a Transmission System	<i>J. P. Belloc</i>

Switzerland

0,517,419	Time Division Multiplex Exchange	<i>F. H. Closs, H. R. Mueller, and D. Wild</i>
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United Kingdom

1,242,039	Pattern Recognition Systems	<i>T. E. Robinson</i>
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United States

3,631,606	Operator Guidance System	<i>A. C. Thorpe</i>
3,631,957	Variable Right-hand Margin-control System	<i>D. W. Terry</i>
3,631,971	Snap-open Magnetic Tape Cartridge	<i>H. O. Rinkleib</i>
3,632,182	Method and Apparatus for Interference Pattern Recording	<i>G. T. Sincerbox</i>
3,632,187	Light Deflector and Scanner	<i>M. A. Habegger</i>
3,632,214	Method and Apparatus for Stabilizing the Phase of Radiation	<i>D. C. Chang, R. S. Schools, G. T. Sincerbox, and T.-Y. Tao</i>
3,632,337	Electrostatic Imaging Process Wherein the Developer Includes Boron Nitride	<i>W. Crooks</i>
3,632,454	Process for Including Superplasticity in Zinc or Zinc-Aluminum Alloys Containing Copper	<i>J. C. Marshall and T. J. Stewart</i>
3,632,881	Data Communications Method and System	<i>W. I. Graham</i>
3,632,900	Magnetic Transducer Displacement Control System	<i>F. Kurzweil, P. I. Prentky, and C. E. Hasty</i>
3,632,997	Bidirectional Counter	<i>J. W. Froemke</i>
3,633,005	Four Quadrant Multiplier Using a Single Amplifier in a Balanced Modulator Circuit	<i>H. N. Leighton</i>
3,633,011	Method and Apparatus for Precisely Contouring a Workpiece Imprecisely Positioned on a Supporting Fixture	<i>S. Bederman and L. G. Lankford</i>
3,633,018	Digital Division by Reciprocal Conversion Technique	<i>H. Ling</i>
3,633,100	Testing of Nonlinear Circuits by Comparison with a Reference Simulation with Means to Eliminate Errors Caused by Critical Race Conditions	<i>M. F. Heilweil and M. T. McMahon</i>
3,633,113	Timed Pulse Train Generating System	<i>S. J. Grubel and J. F. Merrill</i>
3,633,166	Data Transmission Method and Serial Loop Data Transmission System	<i>J. L. Picard</i>
3,633,168	Line Control Adapter for a Synchronous Digital-formatted Message-communications System	<i>R. C. Dixon, L. J. Hash, and R. F. Steen</i>
3,633,170	Digital Filter and Threshold Circuit	<i>G. D. Jones, Jr.</i>
3,633,183	Optical Information Recording with Real-time Display and Error Correction	<i>R. O. Cobb and J. Lipp</i>
3,633,186	Transducer Accessing Mechanism Utilizing Centrifugal Force	<i>J. J. Lynott and R. C. Treseder</i>
3,633,202	Self-calibrating Analog-to-digital Converter	<i>P. A. Kuckein and F. E. Mueller</i>
3,633,994	Laser Beam Scanner	<i>D. G. Carlson</i>
3,633,995	Acousto-optic Light Deflection System	<i>E. G. Lean, K. S. Pennington, R. V. Pole, and C. G. Powell</i>
3,633,996	Two-dimensional Acousto-optic Deflection System	<i>E. G. Lean, R. V. Pole, and S. C. Tseng</i>
3,634,079	Substrate Layer for Dichroic Photo-conductors	<i>R. B. Champ and M. D. Shattuck</i>
3,634,084	Multiple Light Flash Photographic Process	<i>J. F. Creedon and R. W. Kern</i>
3,634,162	Method of Chip Insertion	<i>M. R. Chaffee and T. M. Paulson</i>
3,634,621	Multipersistence Display Arrangement	<i>E. S. Barrekette, H. B. Baskin, and B. Kazan</i>
3,634,665	Systems Use of Self-testing Checking Circuits	<i>W. C. Carter and P. R. Schneider</i>
3,634,702	Solid-state Delay Line	<i>K. E. Drangeid</i>
3,634,708	Improved Low Inertia Armature Winding Formed of a Continuous Wire	<i>G. A. Fisher</i>
3,634,745	Digital Velocity Servo for DC Servomotor	<i>G. J. Agin</i>
3,634,773	Carrier Phase and Sampling Time Recovery in Modulation Systems	<i>H. Kobayashi</i>
3,634,789	Geometrically Dependent Distributed-section Transmission Line Attenuator	<i>P. E. Stuckert</i>
3,634,821	Error Correcting System	<i>D. C. Bossen and M.-Y. Hsiao</i>
3,634,822	Method and Apparatus for Style and Specimen Identification	<i>C. K. Chow</i>

3,634,827	Processing of Multilayer Weave Design Data	<i>J. R. Lourie and L. S. Woo</i>
3,634,830	Modular Computer Sharing System with Intercomputer Communication Control Apparatus	<i>H. B. Buskin</i>
3,635,454	Apparatus and Process for the Removal of Insulation from Wire	<i>R. W. Angelo and H. G. Houghtalen</i>
3,635,608	Magnetic Disk Assembly	<i>H. S. Crouch, H. G. Dickie, A. H. Metcalfe and L. J. Rigbey</i>
3,636,260	Data Transmission System	<i>M. F. Choquet</i>
3,636,382	Automatic Delay Equalizer	<i>W. G. Crouse</i>
3,636,384	Base-to-Emitter Compensation for Current Switch Emitter-follower Circuits	<i>D. Dewitt</i>
3,636,399	Rare Earth Chalcogenide Thermionic Emission Cathodes	<i>D. E. Eastman, F. Holtzberg and S. I. Methfessel</i>
3,636,429	Logic Circuitry for Providing Stopping Control for Stepping Motors	<i>M. Jakubowski and J. P. Pawletko</i>
3,636,443	Method of Testing Devices Using Untested Devices as a Reference Standard	<i>S. Singh and V. P. Singh</i>
3,636,838	Beam Motion Compensation in Optical Image Transfer Systems Having Moving Parts	<i>D. C. Chang and J. Lipp</i>
3,637,293	Kinoform Matched Filter Method	<i>A. W. Lohmann</i>
3,637,306	Copying System Featuring Alternate Developing and Cleaning of Successive Image Areas on Photoconductor	<i>L. M. Cooper</i>
3,637,433	Process for Improving Photoconductive Elements	<i>J. A. Sims</i>
3,638,081	Integrated Circuit Having Lightly Doped Exptaxial Collector Layer Surrounding Base and Emitter Elements and Heavily Doped Buried Collector Layer in Contact with the Base Element	<i>R. H. F. Lloyd</i>
3,638,199	Data-processing System with a Storage Having a Plurality of Simultaneously Accessible Locations	<i>E. Kolankowsky and R. F. McMahon</i>
3,638,203	Random Access Solid-state Memory Using SCR's	<i>A. M. Patel</i>
3,638,204	Semiconductive Cell for a Storage Having a Plurality of Simultaneously Accessible Locations	<i>E. Kolankowsky</i>
3,638,565	Print Type Carrier	<i>J. E. Drejza, M. A. Hendel and W. F. Morgan</i>
3,638,687	Wire-forming Machine	<i>G. B. Bardo</i>
3,639,125	Process for Producing Photographic Relief Patterns	<i>N. Chand</i>
3,639,143	Electroless Nickel Plating on Nonconductive Substrates	<i>R. O. Lussow and L. H. Wirtz</i>
3,639,167	Transition Metal Doped EuO Films	<i>K. Y. Ahn</i>
3,639,185	Novel Etchant and Process for Etching Thin Metal Films	<i>L. A. Colom and H. A. Levine</i>
3,639,186	Process for the Production of Finely Etched Patterns	<i>T. Forster and T. O. Mohr</i>
3,639,188	Method of Manufacture of a Magnetic Disk and Recording Surface	<i>M. J. Vogel</i>
3,639,218	Shelf Life Improvement of Electroplated Solder	<i>L. Missel</i>
3,639,688	Servomechanism for Incrementing Strip Record Transporting Systems	<i>R. G. Nelson</i>
3,639,694	Time Division Multiplex Communications System	<i>H. Deutsch, E. H. Steward, and W. D. VanGieson</i>
3,639,701	Magnetic Recording Head Having a Nonmagnetic Ferrite Gap	<i>D. R. Secrist and H. L. Turk</i>
3,639,900	Enhanced Error Detection and Correction for Data Systems	<i>H. C. Hinz, Jr.</i>
3,639,904	Data Communication System of Loop Configuration and Serial Transmission of Time Slots	<i>J. A. Arulpragasam</i>
3,639,976	Method of Mounting a Ferrite Head	<i>H. M. Hoogendoorn, J. E. Liberman, B. Narken, and B. Sunners</i>
3,640,217	Print Hammer Control Means for Pivotaly Mounted Type Members	<i>J. E. Drejza</i>
3,640,271	Blood Flow Pressure Measurement Technique Employing Injected Bubbled and Ultrasonic Frequency Scanning	<i>J. W. Horton</i>
3,640,714	Method for Posting Intelligence on Diazo Sensitive Microfiche	<i>R. B. Champ, H. A. Jurgens, and J. O. Thompson</i>
3,640,738	Borosilicate Glass Composition	<i>J. R. Detweiler, Jr. and R. R. Tummala</i>
3,640,865	New Ferroelectric Materials and Process of Preparation	<i>G. Burns, E. A. Giess, and D. F. O'Kane</i>
3,641,360	Dynamic Shift/Store Register	<i>Y. L. Yao</i>
3,641,367	Pulse Driving Circuit for Inductive Load	<i>B. M. Griffing</i>
3,641,402	Semiconductor Device with Beta Tantalum-Gold Composite Conductor Metallurgy	<i>M. Revitz and F. E. Turene</i>
3,641,500	Voice Entry System	<i>E. C. Greanias and W. J. Levine</i>
3,641,516	Write-once, Read-only Store Semiconductor Memory	<i>P. P. Castrucci, H. R. Gates, R. A. Henle, W. D. Pricer, R. M. Morton, J. W. Mason, and W. D. North</i>
3,641,526	Intrarecord Resynchronization	<i>D. L. Bailey and H. C. Hinz, Jr.</i>
3,641,534	Intrarecord Resynchronization in Digital-recording Systems	<i>J. W. Irwin</i>
3,641,556	Character Addressing System	<i>R. A. Jones</i>
3,641,558	Multiplexed Video Generation	<i>W. C. Cook and W. J. Hogan</i>
3,641,559	Staggered Video Digital TV System	<i>W. J. Hogan and A. E. Malden</i>
3,641,877	Flow-sensing System and Valve	<i>R. C. Hebert</i>
3,641,931	Analyzing, Orienting and Printing Means in Ticket Handling Mechanism	<i>T. A. Hickox, G. H. May, and J. E. Shepard</i>

3,642,197	Data Recorder and Verifier	D. E. Bean, J. T. Engh, J. R. Hammer, J. J. Igel, M. D. Schettl, H. J. Tashjian, R. J. Ullmer, and J. W. Kerr
3,642,347	Improved External Light Deflection Apparatus	J. Lipp
3,642,350	Computer-generated Filtering Method	P. M. Hirsch, J. A. Jordan, Jr., and L. B. Lesem
3,642,443	Group III-V Semiconductor Twinned Crystals and Their Preparation by Solution Growth	S. E. Blum, L. M. Foster, and T. S. Plaskett
3,642,476	Method of Preparing Glass Masters	N. N. Mesley
3,642,529	Method for Making an Infrared Sensor	R. E. Lee, P. S. McDermott, and E. S. Pan
3,642,533	Magneto-optical Elements	K. Y. Ahn and S. Methfessel
3,642,544	Method of Fabricating Solid-state Devices	R. W. Keyes and K. Weiser
3,642,549	Etching Composition Indication	R. A. Couture and J. J. Lajza, Jr.
3,643,037	Separation Control for Record Media Transducer with Transverse Slots to Supply Ambient Pressure	R. E. Norwood
3,643,039	Multiple Pitch Carriage Line Spacing	J. G. Barcomb and E. T. Kozol
3,643,116	Fast Logic Using Ultrashort Laser Pulses	W. H. Culver and F. Mehran
3,643,135	Triaxially Expandable Circuit Arrays	E. W. Devore and K. L. Hotaling
3,643,221	Channel Buffer for Data Processing System	J. B. Chambers
3,643,226	Multilevel Compressed Index Search Method and Means	E. Loizides, D. J. Lucas, and G. F. Steigerwalt
3,643,231	Monolithic Associative Memory Cell	F. H. Lohrey and S. K. Wiedmann
3,643,233	Three-dimensional Optical Read-only Memory	G. J. Fan and J. H. Greiner
3,643,235	Monolithic Semiconductor Memory	H. H. Berger and S. K. Weidmann
3,643,236	Storage Having a Plurality of Simultaneously Accessible Locations	E. Kolankowsky, R. F. McMahon, and D. J. Perlman
3,643,237	Multiple-junction Tunnel Devices	W. Anacker
3,643,240	Locking Means for Disk Pack Assembly	W. G. Raiser
3,643,389	Modular Electrical Enclosure	W. S. Sheppley, Jr.
3,643,881	Apparatus for Winding a Core and Splitting Multistrand Wires	K. W. Beumer, G. M. Geany, J. A. Haran, E. P. Hecker, G. E. Nyman, and R. E. Post
3,644,118	Polydiacrylyl Photosensitive Compositions	R. K. Agnihotri
3,644,154	Method of Fabricating Semiconductor Structures with Reduced Crystallogra- phic Defects	C. Hoogendoorn, M. Moody, and G. H. Schwutke
3,644,700	Method and Apparatus for Controlling an Electron Beam	R. W. Kruppa, E. V. Weber, and O. C. Woodard
3,644,756	Time Analog Converter Circuit for Jitterfree Operation	P. C. Furois and G. H. Latta
3,644,850	Integrated Circuit Band Pass Filter	I. T. Ho
3,644,902	Memory with Reconfiguration to Avoid Uncorrectable Errors	W. F. Beausoleil
3,644,906	Hybrid Associative Memory	A. Weinberger
3,644,935	Method of Identifying Connected Regions in a Large Segmented Pattern	J. R. Lourie
3,645,178	Apparatus for Exposing Photoresist in Cylinders	C. G. Speicher
3,645,179	Apparatus for Exposing Photoresist in Cylinders	K. N. Karol
3,645,229	Rotational Mechanism	R. R. Phinney
3,645,372	Automatic Type Element Changing Mechanism for Single Element Type- writer	N. G. Noell and D. C. Roller
3,645,378	Edge Feed Transport System for Document Sorting and Stacking	M. Jakubowski
3,645,392	Document Sorting System	R. M. Chittenden, S. Deskevich, N. R. Plummer, G. D. Rohrer, and L. F. Zaman, III
3,645,470	Self-valving Web Loading and Transportation	W. H. Dickinson and J. W. Irwin
3,645,526	No-moving Parts, Pneumatic Hopper/Separator	J. J. Holecek and L. D. Zolnosky
3,645,545	Entrance-Exit Atmospheric Isolation Device	R. R. Garnache and D. M. Kenny
3,645,622	Method and Apparatus for Aligning a Photomask	R. P. Cachon, F. R. Grundon, F. H. Masterson, J. C. Miller, and F. E. Wustrau
3,645,626	Apparatus for Detecting Defects by Optical Scanning	W. O. Druschel
3,645,855	Ultrasonic Repair Plating of Microscopic Interconnections	R. L. Wisman
3,645,859	Durable, Anticorrosive and Attractive Surface Coatings with Electrical Con- tact Application	E. P. Damm, Jr. A. W. Grobin, Jr. E. H. Herel, and D. A. Radovsky
3,645,873	Method of Producing Insulated Wire Assemblies	B. E. Cornish, E. P. Damm, Jr., and M. A. Faigenbaum
3,646,307	Wiring Apparatus	H. K. Hazel
3,646,384	One-sided Plasma Display Panel	F. M. Lay
3,646,417	Digital Speed Servomechanism	J. V. Cassie, P. J. Lima, and E. R. McCully

3,646,452	Second Order Digital Phase-lock Loop	<i>I. Horowitz, L. A. Laurich, and F. W. Niccone</i>
3,646,516	Error-detecting Circuitry	<i>M. Flinders, P. L. Gardner, M. H. Hallet, J. W. Jones, J. F. Minshall, and K. G. Taylor</i>
3,646,523	Computer	<i>K. J. Berkling</i>
3,646,524	High-level Index-factoring System	<i>W. A. Clark, IV, C. T. Davies, Jr., K. A. Salmond, and T. S. Stafford</i>
3,646,525	Data Regeneration Scheme without Using Memory Sense Amplifiers	<i>R. H. Linton and T. L. Palfi</i>
3,646,550	Magnetic Decoder Network with Multidimensional Selection Capability ...	<i>W. Anacker</i>
3,646,584	Coordinate Transmission for Character Recognition Systems	<i>W. W. Hardin and P. J. Traglia</i>