

# Recent IBM patents

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*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.*

## France

325,080	C. Garcia, J. P. Franquenouille, M. Badaoui, R. Dambricourt, S. Spalmacin-Roma, and Y. Granger	Protocol and apparatus for the selective scanning of a plurality of lines connected to a communication device
356,597	A. Milewski, C. Galand, E. Lancon, J. Belloc, and M. Quintin	Multirate Transmit/Receive Filters
401,452	C. Galand and J. Menez	Low-delay Low-bit-rate Speech Coder
405,041	D. J. Esteban, J. F. LePennec, P. Dalmas, P. Michel, and P. Therias	SDLC Fast Loading and Selection
407,674	G. Orenco, G. Richter, J. P. Pantani, and M. Ferry	Sigma-delta Converter for Performing an Attenuation Function and Having a Transfer Function Insensitive to the Rise and Fall Time

## Germany

68,912,932.7	M. Sammet	Glass-ceramic Structure and Method for Making Same
68,914,273.0	J. Hajdu, K. J. Getzlaff, and W. Haller	Timer Function with Variable Oscillator Frequency
3,888,184,508	H. J. Trumpp, K. Meissner, O. Koblinger, R. Muehl, and W. Zapka	Process for Making Masks with Structures in the Submicron Range

## Switzerland

366,851	H. Fink, H. Schmid, R. Morin, and W. Stocker	Low Voltage Source for Narrow Electron/Ion Beams
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## United Kingdom

259,549	S. T. Todd	Method of and System for Generating Images of Object Transforms
262,304	P. Quarendon	Method and System for Solid Modelling
364,638	F. Ainscow	Communication Network
2,034,314	M. H. Sharp	Visual Display Unit
2,036,421	A. R. Knox, G. Grant, and M. D. Oates	Visual Display Unit

## United States

5,218,173	R. L. Garwin and G. F. Russell	Shielding Materials for Electromagnetic Digitizers
5,219,788	J. R. Abernathy, T. H. Daubenspeck, S. E. Luce, D. J. Poley, R. A. Previti-Kelly, G. P. Viens, and J. H. Yoon	Blayer Metallization Cap for Photolithography
5,231,666	S. M. Matyas	Cryptographic Method for Updating Financial Records
5,239,200	G. P. Messina, R. A. Brewster, T. J. Kara, and S. Song	Apparatus for Cooling Integrated Circuit Chips

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- 5,241,203 L. L. Hsu, S. Ogura, J. F. Shepard, and P. J. Tsang
- 5,243,334 C. J. Georgiou and T. A. Larsen
- 5,245,487 E. A. Cunningham
- 5,247,681 F. L. Janis, J. D. Aman, and D. R. Cox
- 5,249,264 T. Matsumoto
- 5,249,265 N. Y. Liang
- 5,251,315 D. S. Wang
- 5,254,503 D. M. Kenney
- 5,259,110 A. Bross, R. O. Lussow, and T. J. Walsh
- 5,259,781 J. G. Baumberger, J. R. Bentlage, F. W. Chapin, K. V. Desai, A. D. Knight, and T. G. Macek
- 5,259,918 S. Akbar, J. O. Chu, and B. Cunningham
- 5,260,108 B. E. Braren, E. J. M. O'Sullivan, and A. G. Schrott
- 5,260,172 H. Ito
- 5,260,233 T. N. Buti, L. L.-C. Hsu, R. V. Joshi, and J. F. Shepard
- 5,260,519 J. U. Knickerbocker, C. H. Perry, and D. R. Wall
- 5,260,577 D. W. Abraham, J. M. Hammond, M. A. Klos, K. G. Roessler, R. M. Stowell, and H. K. Wickramasinghe
- 5,260,924 K. Hayashi
- 5,260,933 G. L. Rouse
- 5,260,936 G. Bardet, J.-F. Le Pennec, P. Michel, and P. Therias
- 5,260,942 R. A. Auerbach, J. A. Blades, J. W. Byrn, and G. S. Delp
- 5,260,952 K. E. Beilstein, Jr., J. A. Fifield, L. G. Heller, H.-S. Lee, and C. H. Stapper
- 5,260,976 F. Dolivo and W. Schott
- 5,260,989 R. V. Jenness and V. S. Moore
- 5,261,045 K. J. Scully and H. S. Singh
- 5,261,049 L. Lumelsky and S. M. Choi
- 5,261,063 J. W. Kohn and J. White
- 5,261,079 J. Celi, Jr.
- 5,261,088 R. Baird, G. P. Bozman, and N. Y. Young
- 5,261,089 A. Coleman, J. A. Henry, E. A. Pruul, R. L. Stone, and M. E. Vendryes
- 5,261,094 R. S. Everson, M. R. Felix, and B. D. Robertson
- 5,261,099 F. Bigo and V. Spagnol
- 5,261,102 R. D. Hoffman
- 5,261,107 P. J. Klim, A. M. Lyford, and D. L. Moeller
- 5,261,155 C. G. Angulas, P. T. Flynn, J. Funari, T. E. Kindl, and R. L. Orr
- 5,262,273 P. A. Agostino and F. M. Pressman
- 5,262,346 A. Bindal and J. E. Currie
- 5,262,354 W. J. Cote, P.-I. P. Lee, T. E. Sandwick, B. M. Vollmer, V. Vynorius, and S. H. Wolff
- 5,262,588 R. M. Gallagher
- 5,262,632 W. O. Camp, Jr.
- Inverse T-Gate FET Transistor with Lightly Doped Source and Drain Region
- Partitioned Switch with Distributed Clocks
- Transducer Head for Rigid Disk Drive
- Dynamic Link Libraries System and Method
- Image Display Method and Apparatus
- Structure Storage Management in a Graphics Display Device
- Atomic Check-In Check-Out Document Copy Commands Partitioned into Document Interchange Architecture System Operands
- Process of Making and Using Micro Mask
- Method for Forming a Multilayer Microelectronic Wiring Module
- Electrical Connector Alignment and Actuation Assembly
- Heteroepitaxial Growth of Germanium on Silicon by UHV/CVD
- Selective Seeding of PD by Excimer Laser Radiation Through the Liquid
- Multilayer Photoresist Comprising Poly-(Vinylbenzoic Acid) as a Planarizing Layer
- Semiconductor Device and Wafer Structure Having a Planar Buried Interconnect by Wafer Bonding
- Multilayer Ceramic Substrate with Graded Vias
- Sample Carriage for Scanning Probe Microscope
- Cleaning Cartridge for Optical Disk Drive Apparatus
- Acknowledgement Protocol for Serial Data Network with Out-of-order Delivery
- HDLC Store and Forward Apparatus
- Method and Apparatus for Batching the Receipt of Data Packets
- Fault Tolerant Logic System
- Preamble Recognition and Synchronization Detection in Partial-Response Systems
- Method and System for Enhanced Data Transmission in a Cellular Telephone System
- Method of Exchanging Entries from a Plurality of Different Electronic Calendars Based on Interactively Entered Criteria
- Video RAM Architecture Incorporating Hardware Decompression
- Pipeline Apparatus Having Pipeline Mode Executing Instructions from Plural Programs and Parallel Mode Executing Instructions from One of the Plural Programs
- Interface for Keyboard Emulation Provided by an Operating System
- Managing Locality in Space Reuse in a Shadow Written B-Tree Via Interior Node Free Space List
- Optimization of Commit Procedures by Utilizing a Two-Phase Commit Procedure Only When Necessary
- Asynchronous Replication of Data Changes by Distributed Update Requests
- Synchronous Communications Scheduler Allowing Transient Computing Overloads Using a Request Buffer
- System for Determining Direct and Indirect User Access Privileges to Data Base Objects
- Programmable Interrupt Controller
- Method for Bonding Flexible Circuit to Circuitized Substrate to Provide Electrical Connection Therebetween Using Different Solders
- Photosensitive Reactive Ion Etch Barrier
- Nitride Polish Stop for Forming SOI Wafers
- Refractory Metal Capped Low Resistivity Metal Conductor Lines and Vias
- Electromagnetic Interference/Radio Frequency Interference Seal
- Integrated Circuit for Achieving Pattern Recognition