

Recent IBM Patents

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

| | | |
|-----------------------|---|---|
| France | | |
| 0,096,488 | AC Frequency Checking Circuit | <i>D. F. Pasquier</i> |
| 7,032,369 | Multiplex Audio Response Unit | <i>R. H. Buron, A. Croisier, and D. G. Hurel</i> |
| 7,040,292 | Data Transmission System | <i>M. F. Choquet and H. J. Nussbaumer</i> |
| Sweden | | |
| 0,342,324 | Method and Device for Quantitative Spectrochemical Analysis | <i>B. T. Cronhjort and N. R. Aslund</i> |
| Switzerland | | |
| 0,522,330 | Method and Device for Coding and Decoding Video Signals | <i>A. H. Frei, H. R. Schindler, and P. Vettiger</i> |
| United Kingdom | | |
| 1,257,760 | Microprogram Controlled Data Processing Systems | <i>R. J. Llewelyn</i> |
| 1,262,248 | Data Processing Apparatus | <i>P. C. Austin, G. H. Manley, R. W. Taylor, and D. A. Reid</i> |
| United States | | |
| 3,659,340 | Method of Fabricating Coaxial Wires in Back Panels | <i>G. R. Giedd and M. H. Perkins</i> |
| 3,659,386 | A Method for Providing a Finished Surface on Workpieces | <i>F. E. Goetz, P. R. Druzba, Jr., J. R. Hause, and G. Seeley</i> |
| 3,659,779 | Punch Mechanism | <i>J. W. Berkman and L. R. Gravell</i> |
| 3,659,841 | Stacker for Document Cards | <i>J. M. Rigotti</i> |
| 3,660,180 | Constrainment of Autodoping in Epitaxial Deposition | <i>E. S. Wajda</i> |
| 3,660,250 | Method of Determining Impurity Profile of a Semiconductor Body | <i>M. C. Duffy and R. L. Hudson</i> |
| 3,660,263 | Hostile Environment Protection of Critical Metallic Surfaces by Electro- phoretically Deposited Coatings | <i>L. V. Auletta, B. E. Cornish, E. P. Damm, Jr., M. A. Faigenbaum, and A. M. Simon</i> |
| 3,660,601 | Frequency Detection System | <i>D. R. Dobson</i> |
| 3,660,616 | Dictating and Transcribing Systems Featuring Random Sentence Arrange- ment with Recognition and Location of Sentences in a Preferred Sequence .. | <i>R. V. Davidge and A. Kolpek</i> |
| 3,660,617 | Low Profile Single-turn Magnetic Recoding Head with Read/Write Winding Coupled to Single Turn Winding | <i>J. J. Hagopian</i> |
| 3,660,678 | Basic Ternary Logic Circuits | <i>G. A. Maley and J. L. Walsh</i> |
| 3,660,646 | Checking by Pseudoduplication | <i>R. H. Minero, J. Q. Beard, A. J. Anello, R. G. Furey, and L. R. Palounek</i> |
| 3,660,677 | Interchanger 1 Circuits | <i>G. A. Maley and J. L. Walsh</i> |
| 3,660,822 | Variable Breakdown Storage Cell with Negative Resistance Operating Char- acteristic | <i>E. E. Davidson and R. L. Moore</i> |
| 3,661,309 | Loading and Unloading an Endless Web in a Cartridge | <i>P. J. Arseneault and L. B. Feierabend</i> |
| 3,661,436 | Transparent Fabrication Masks Utilizing Masking Material Selected From the Group Consisting of Spinels, Perovskites, Garnets, Fluorides, and Oxy- fluorides | <i>R. S. Horwath and V. Sadagopan</i> |
| 3,661,636 | Process for Forming Uniform and Smooth Surfaces | <i>J. M. Green, II, T. O. Sedgwick, and V. J. Silvestri</i> |
| 3,661,761 | RF Sputtering Apparatus for Promoting Resputtering of Film During Depo- sition | <i>J. R. Koenig</i> |
| 3,662,119 | Thin Film Magnetic Transducer Head | <i>L. T. Romankiw and G. A. Wardly</i> |
| 3,662,138 | Actuator for Momentary Closure of an Elastic Diaphragm Switch | <i>R. H. Harris and D. J. Laurer</i> |
| 3,662,188 | Field Effect Transistor Dynamic Logic Buffer | <i>T. A. Williams</i> |
| 3,662,341 | Video-Derived Segmentation-Gating Apparatus for Optical Character Recog- nition | <i>R. J. Baumgartner, J. L. Lovgren, and J. W. McCullough</i> |
| 3,662,348 | Message Assembly and Response System | <i>A. Weiss</i> |
| 3,662,351 | Alterable Latent Image Monolithic Memory | <i>I. T. Ho, G. A. Maley and R. Waxman</i> |
| 3,662,355 | Surface Wave Signal Storage Device | <i>B. Kazan</i> |
| 3,662,359 | Method and Apparatus for Creation of Cylindrical, Single Wall Domains | <i>E. R. Genovese</i> |
| 3,662,361 | Magnetic Head with Deposited Core and Signal Conductor | <i>C. D. Mee</i> |
| 3,662,364 | Scan Control for Synchronizing a Data Signal with a Clock Signal | <i>A. M. Patel and A. G. Wellbrock</i> |
| 3,662,375 | Shift Register Display | <i>D. L. Johnston and P. E. Nelson</i> |
| 3,662,377 | Triple-Sample A/D Converter | <i>H. Dym, R. V. Mazza, and L. P. Segar</i> |

| | | |
|-----------|--|--|
| 3,662,389 | Determination of Far Field Antenna Patterns Using Fresnel Probe Measurements | R. T. Coffin, R. W. Grundmeyer, W. H. Hefner, and F. H. Mitchell |
| 3,662,500 | Method for Polishing Magnetic Oxide Materials | E. Mendel |
| 3,662,501 | Method for Polishing Magnetic Oxide Materials | E. Mendel |
| 3,662,881 | Module Handling Apparatus | W. J. Fineran |
| 3,663,012 | Document Handling Device Provided with a Number of Rotatable Hollow Drums with Suction Openings | T. H. van den Honert |
| 3,663,194 | Method for Making Monolithic Opto-Electronic Structure | B. Greenstein, P. R. Langston, Jr., and B. Sunners |
| 3,663,384 | Bath for Electroplating Tin-Bismuth Alloy | J. P. Lescure |
| 3,663,415 | Apparatus for Selective Application of Electrophoretic Coatings | L. V. Auletta, Y. Kim, and A. M. Simon |
| 3,663,749 | Slow Scan Video Method and System | M. R. Cannon |
| 3,663,835 | Field Effect Transistor Circuit | W. K. Hoffman |
| 3,664,737 | Printing Plate Recording by Direct Exposure | J. Lipp |
| 3,665,103 | Synchronous Frequency Shift Data Transmission System in Which Opposite Binary Characterizations are Transmitted as Half Cycles of a First Carrier Signal and as Full Cycles of a Second Carrier Signal | R. V. Watkins |
| 3,665,135 | Triple Modular Redundancy/Sparing | W. G. Bouricius, W. C. Carter, J. P. Roth, and P. R. Schneider |
| 3,665,174 | Error Tolerant Arithmetic Logic Unit | W. G. Bouricius, W. C. Carter, K. A. Duke, J. P. Roth, and P. R. Schneider |
| 3,665,175 | Dynamic Storage Address Blocking to Achieve Error Toleration in the Addressing Circuitry | W. G. Bouricius, W. C. Carter, J. P. Roth, and P. R. Schneider |
| 3,665,210 | Monolithic Bipolar Convertible Static Shift Register | I. T. Ho, P. E. Howell, and T.-S. Jen |
| 3,665,327 | Noise Discrimination for Digital Data Detection System | P. I. Prentky and A. A. Wilson |
| 3,665,403 | Data Recorder and Verifier | J. J. Igel and M. D. Schettl |
| 3,665,418 | Status Switching in an Automatically Repaired Computer | W. G. Bouricius, W. C. Carter, J. P. Roth, and P. R. Schneider |
| 3,665,429 | Recorded Signal Enhancing Apparatus and Method | R. F. M. Thornley |
| 3,665,431 | Magneto-Optic Transducer | J. K. Alstad, J. D. Armitage, Jr., and G. Bate |
| 3,665,437 | Method for Aligning Magnetic Heads for Use in Recording a Master Disk Pack | R. E. Mueller |
| 3,665,513 | Passive Magnetic Transfer of Discrete Magnetic Information | A. B. Benson and E. T. Hatley |
| 3,665,852 | High Speed Front Impact Printer | R. H. Harrington |
| 3,666,070 | Differential Mechanism for Positioning a Type Character on a Type Element | J. O. Schaefer |
| 3,666,202 | Single Reel Magnetic Tape Unit | J. W. Wenner |
| 3,666,247 | Fusing Device and Method | W. K. Banks |
| 3,666,262 | Magnetic Card Transport | R. L. Fowler, E. W. Parken, L. H. Robbins, and J. W. Woods |
| 3,666,358 | Reflex Character Generator | W. K. Banks |
| 3,666,463 | Mask Overlay Comparison | D. S. Beynnon and B. D. King |
| 3,666,473 | Positive Photoresists for Projection Exposure | L. Colom and H. A. Levine |
| 3,666,518 | Development Means and Methods for Developing Electrostatic Images | E. W. Luttmann and H. C. Medley |
| 3,666,548 | Monocrystalline Semiconductor Body Having Dielectrically Isolated Regions and Method of Forming | K. Brack, E. F. Gorey, and G. H. Schwuttke |
| 3,666,554 | Manufacture of Electrophotographic Plate | K. K. Kanazawa and G. B. Street |
| 3,666,648 | In-Situ Reclamation of Master Patterns for Printing Microcircuit Images on Reversely Sensitized Material | D. J. Lasky and H. C. Weisel |
| 3,666,665 | Composition of Ferroelectric Matter | D. W. Chapman, J. D. Michaelsen, and F. J. Stryker |
| 3,666,897 | Recording and Reproducing System with Video Heads Reading both Information Data from Oblique Tracks and Address Data from the Longitudinal Control Track | J. D. Harr |
| 3,666,981 | Gas Cell Type Memory Panel with Grid Network for Electrostatic Isolation | F. M. Lay |
| 3,667,115 | Fabrication of Semiconductor Devices with Cup-shaped Regions | F. Barson and H. S. Lehman |
| 3,667,678 | Nozzle Structure for Jet Printers | J. W. Haskell |
| 3,667,831 | Three-dimensional Zone Plate Grid Encoding and Decoding | K. S. Pennington, G. L. Shelton, and P. M. Will |
| 3,668,025 | Method for Alloying Metals in the Presence of Reactive Materials | J. M. Blum and J. P. Hoekstra |
| 3,668,082 | Method for Strongly Adhering a Metal Film on Epoxy Substrates | G. V. Elmore |
| 3,668,313 | Resistive Grid Graphic Data Tablet | H. Dym |
| 3,668,356 | Mechanical Key Actuator Including a Cantilever Beam Restoring Force Means | D. H. Kekas |
| 3,668,420 | 1.5 Micron Raman Laser | J. T. Vanderslice |
| 3,668,429 | Sense Amplifier Latch for Monolithic Memories | R. A. Ainsworth |
| 3,668,452 | Dynamolectric Machine with Improved Magnetic Field Construction | P. Y. Hu |
| 3,668,480 | Semiconductor Device Having Manyfold IV Characteristics | L. L. Chang and L. Esaki |

| | | |
|-----------|---|--|
| 3,668,487 | Electromagnetic Actuated Detent Apparatus | <i>D. E. Cuzner, L. J. Rigbey, and G. M. Smith G. J. Agin</i> |
| 3,668,494 | Constant Displacement Stopping Control | <i>M. Ghafghaichi</i> |
| 3,668,522 | Method and Apparatus for Characterizing Test Elements on the Basis of Rise-time Degradation | <i>A. H. Lautier and J. L. Monrolin</i> |
| 3,668,570 | Adaptive Switched Filter Arrangement for Use in Rapid Frequency Tracking | <i>R. L. Griffith and I. B. Oldham, III</i> |
| 3,668,631 | Error Detection and Correction System with Statistically Optimized Data Recovery | <i>I. B. Oldham, III</i> |
| 3,668,632 | Fast Decode Character Error Detection and Correction System | <i>C. J. Evangelisti and L. E. Rittenhouse</i> |
| 3,668,647 | File Access System | <i>L. M. Hornung</i> |
| 3,668,651 | Working Device Code Method of I/O Control | <i>R. Flores and H. E. Thompson</i> |
| 3,668,658 | Magnetic Record Disk Cover | <i>L. H. Everett and J. H. Judy</i> |
| 3,668,671 | Method and Apparatus for Reading Super-imposed Magnetic Recordings | <i>L. P. Hayes</i> |
| 3,668,990 | Printed Circuit Generator | <i>C. E. Wheelock</i> |
| 3,669,018 | Long-wearing Silver-Halide Gelatin Offset Printing Plate | <i>A. A. Dowd</i> |
| 3,669,327 | Forms Feeding Tractor and Jam Detector Therefor | <i>J. B. Tait</i> |
| 3,669,521 | Time Sensed Static Beam Holographic Storage System | <i>R. L. Fowler</i> |
| 3,669,538 | Illumination System | <i>R. K. Agnihotri</i> |
| 3,669,662 | Cyclic Polyisoprene Photoresist Compositions | <i>C. E. Wheelock</i> |
| 3,669,663 | Preparation of Silver Halide Grains and Photographic Emulsions | <i>M. A. Faigenbaum, D. J. Lasky, and H. C. Weisel</i> |
| 3,669,665 | Process for Making Resist Stencils from Photographic Stripping Films and for Using Same | <i>E. R. Skarvinko</i> |
| 3,669,667 | Preventing Speed Loss in Oxygen Sensitive Photo-resist Layers | <i>D. L. Klein, M. W. MacIntyre, and L. J. Rothman</i> |
| 3,669,669 | Cyclic Polyisoprene Photoresist Compositions | <i>S. Middelhock and G. Sasso</i> |
| 3,669,732 | Procedure for Making Semiconductor Devices of Small Dimensions | <i>M. Kaufmann and B. R. Schultz</i> |
| 3,669,757 | Method of Making and Using Diced Single Crystal Impurity Source | <i>A. V. Badami, E. Ebert, B. M. Kemplage, K. E. Kroell, and H. B. Pogge</i> |
| 3,669,769 | Method for Minimizing Autodoping in Epitaxial Deposition | <i>J. A. Elmgren and R. R. R. Rodite</i> |
| 3,669,871 | Sputtering Apparatus Having a Concave Source Cathode | <i>J. F. Ruszyk and D. R. Secrist</i> |
| 3,670,112 | Air Bearing Magnetic Head with Glass Slider Body | <i>J. J. Rooney and A. Z. Walach</i> |
| 3,670,230 | Active Filter Capacitor for Power Supply Switching Regulators | <i>J. M. Joyce</i> |
| 3,670,234 | Pulse Width Modulated Voltage Regulator | <i>R. Andresen, B. C. Fiorino, and F. W. Niccore</i> |
| 3,670,304 | Method and Apparatus for Detecting Errors Read from Moving-Magnetic-Storage Device with Digital Interface | <i>R. F. Arnold, P. S. Dauber, C. V. Freiman, R. J. Robelen, and J. R. Wierzbicki</i> |
| 3,670,307 | Interstorage Transfer Mechanism | <i>G. M. Amdahl, R. F. Arnold, P. S. Dauber, C. V. Freiman, R. J. Robelen, H. Schorr, and J. R. Wierzbicki</i> |
| 3,670,309 | Storage Control System | <i>W. F. Beausoleil, D. T. Brown, and E. L. Walker</i> |
| 3,670,313 | Dynamically Ordered Magnetic Bubble Shift Register Memory | <i>L. A. Tate</i> |
| 3,670,314 | Read Gating Circuit for Core Sensing | <i>R. L. Johnson and D. W. Leach</i> |
| 3,670,612 | Card Cutting Apparatus | <i>S. Z. Dushkes and R. J. Surty</i> |
| 3,670,944 | Miniature Ultrasonic Bonding Device | <i>R. A. Rahenkamp and W. R. Stewart, Jr.</i> |
| 3,671,683 | Sentence Oriented Dictation System Featuring Random Accessing of Dictation Segments | <i>G. H. May</i> |
| 3,671,719 | Roller Structure for Card Reader | <i>R. M. Bakke</i> |
| 3,671,725 | Dead Time Process Regulation | <i>G. A. Maley and J. L. Walsh</i> |
| 3,671,763 | Ternary Latches | <i>G. A. Maley and J. L. Walsh</i> |
| 3,671,764 | Auto-reset Ternary Latch | <i>R. A. Henle</i> |
| 3,671,772 | Difference Amplifier | <i>C. C. Herron</i> |
| 3,671,787 | Laminated Dynamoelectric Machine Having Nonmagnetic Lamina for Structural Support | <i>D. C. Bossen and M.-Y. Hsiao</i> |
| 3,671,947 | Error Correcting Decoder | <i>E. D. DeJong, H. Koch, and K. B. Maynard</i> |
| 3,672,118 | Card Packaging Apparatus | <i>N. C. Berglund, R. W. King, and K. W. Swearingen</i> |
| 3,672,297 | Printing Control Device in High Speed Chain Printer with Hammers Movable to Plural Print Positions | <i>P. A. Brumbaugh, R. H. Harrington, S. E. Nemier, and T. C. Nielsen</i> |
| 3,672,482 | Wire Matrix Print Head | <i>D. H. Strobe and A. D. Wilson</i> |
| 3,672,744 | Holographic System and Process Utilizing a Wet Cell Phase Hologram | <i>R. W. Kern</i> |
| 3,672,778 | Optical System for Positional and Angular Orientation Determining Apparatus | |

| | | |
|-----------|---|---|
| 3,672,948 | Method for Diffusion Limited Mass Transport | <i>R. A. Foehring, R. R. Garnache, and D. M. Kenney</i> |
| 3,672,983 | Process for Making Metal Contacts to High Speed Transistors and Product Formed Thereby | <i>D. De Witt, V. A. Dhaka, and A. S. Oberai</i> |
| 3,673,289 | Quenching Injection Molded Polycarbonate Parts for Fatigue Resistance | <i>J. Gagliani</i> |
| 3,673,399 | FFT Processor with Unique Addressing | <i>P. J. Hancke, M. Judkovics, and R. J. Urquhart</i> |
| 3,673,473 | Magnetic Tape Unit Reel Motor Tension Control | <i>A. J. Werner</i> |
| 3,673,542 | Connector Assembly with Tine Skewing Housing | <i>E. J. Di Stefano and A. E. Enderley</i> |
| 3,673,575 | Microprogrammed Common Control Unit with Double Format Control Words | <i>P. T. Burton, W. E. Cole, H. E. Frassetto, Jr., R. G. Gibson, A. Greenberg, and L. E. Handloff</i> |
| 3,673,594 | Photocopying Device | <i>B. Kazan</i> |