

Patents Recently Issued to IBM Inventors

April and May 1969

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3,435,934	Torque and Acceleration Control Clutch.....	B. T. Crutcher, III and R. D. Dodge
3,436,104	Tube Coupling.....	J. S. Jackson and M. D. Reeber
3,436,233	Method and Composition for Autocatalytically Depositing Copper.....	H. Jackson
3,436,259	Method for Plating and Polishing a Silicon Planar Surface.....	J. Regh, G. A. Silvey and J. R. Gardiner
3,436,278	Glycol Soldering Fluxes.....	R. M. Poliak
3,436,677	Magneto-optic Radiation Control and Modulator.....	E. Max, W. W. Kulcke and K. M. Kosanke
3,436,734	Error Correcting and Repairable Data Processing Storage System.....	J. H. Pomerene and R. W. Melville
3,436,744	Memory Pulse Program.....	F. E. Sakalay
3,436,747	Orthogonal Mode Switching Transformer.....	J. L. Anderson and H. O. Leilich
3,436,749	Thick Magnetic Film Memory Device.....	R. E. Matick and C. H. Sie
3,436,818	Method of Fabricating a Bonded Joint.....	S. Merrin, M. D. Silver and E. M. Suden
3,437,074	Magnetic Brush Apparatus.....	J. J. Hagopian and W. E. Steele
3,437,505	Method for Depositing Glass Particles on the Entire Exposed Surface of an Object.....	B. Narken and H. L. Whitaker
3,437,577	Method of Fabricating Uniform Rare Earth Iron Garnet Thin Films by Sputtering.....	E. Kay and E. Sawatzky
3,437,824	Optical Character Recognition.....	A. W. Lohmann
3,437,869	Display Apparatus.....	R. O. Cobb and R. A. Skov
3,437,890	Diffused-epitaxial Scanistors.....	R. J. Krohl and E. S. Wajda
3,437,938	Clock Pulse Generator.....	M. A. Krygowski
3,438,018	Apparatus and Method for Magnetic Recording.....	R. E. Braun
3,439,153	Optical Data Line Counter.....	F. A. Litz and J. J. Lynott
3,439,331	Error Detection and Correction Apparatus.....	D. T. Brown and C. H. Wolfe
3,439,348	Electro-optical Memory.....	T. J. Harris, K. M. Kosanke, W. W. Kulcke and E. Max
3,439,918	Narrow Track Magnetic Recording.....	G. Walter
3,439,975	Optical Cavity Electro-optic Scanning Device.....	W. V. Smith
3,440,413	Majority Logic Binary Adder.....	R. Betts
3,440,497	Semiconductor Negative Resistance Electroluminescent Diode.....	R. W. Keyes and K. Weiser
3,440,546	Variable Period and Pulse Width Delay Line Pulse Generating System.....	P. E. Nelson
3,440,560	Apparatus for Controlling the Emission of Laser Light.....	R. V. Pole
3,440,561	Apparatus Employing Electronic Light Shutters for Switching the Direction of a Laser Beam Along Discrete Paths.....	R. V. Pole, R. A. Myers, E. S. Barrekette and J. Nunez
3,440,607	Cyclically Scanned Remote Element Operating System with Answer Back.....	P. P. Abramson and G. R. Stilwell, Jr.
3,440,611	Parallel Operations in a Vector Arithmetic Computing System.....	A. D. Falkoff and D. N. Senzig
3,440,612	Program Mode Switching Circuit.....	K. K. Womack
3,440,615	Overlapping Boundary Storage.....	R. S. Carter
3,440,619	Control System for Maintaining Register Contents During Interrupt and Branch Conditions in a Digital Computer.....	M. M. Lehman and J. I. Rosenfeld
3,440,623	Magnetic Film Memory with Creep Prevention Means.....	H. Chang, C. D. Mee, O. Voegeli and S. Middlehoek
3,440,626	Magnetic Memory Employing Two Thin Films.....	R. F. Penoyer and O. Voegeli
3,441,188	Roll Feed Device.....	G. H. May and J. E. Shepard
3,441,849	Testing and Addressing Apparatus for an Array of Circuit Elements.....	J. P. Bennett, C. A. Harring and W. Teo
3,441,908	Data Storage System.....	J. V. Mizzi
3,441,912	Feedback Current Switch Memory Cell.....	R. A. Henle
3,441,939	Thermoplastic Recording Technique.....	H. R. Anderson, Jr.

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3,442,210	Printer Platen Control.....	J. E. Hawxhurst
3,442,366	Ribbon Tension Control.....	J. W. Spears
3,442,419	Pneumatic Belt Device.....	P. J. Badum, H. K. Baumeister and V. Nejezchleb

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3,442,465	Expanding Paper Tape Take-up Spool	<i>R. E. Lagergren</i>
3,442,582	Lamp Arrangement for Document Scanning and Modified Lamp	<i>R. J. Lahr</i>
3,442,583	Mask Alignment System Using Coherent Fiber Bundle	<i>H. R. Rottmann</i>
3,442,683	Production of Metallic Coatings Upon the Surfaces of Other Materials	<i>J. P. Lenoble, J. Addy and B. P. Pigginn</i>
3,442,774	Method of Electrodepositing a Magnetic Coating on a Chain-like Memory Element	<i>C. Le Méhauté, E. Rocher, G. Guesnier and R. Vaesken D. E. Dohler</i>
3,443,027	Control System for Flying Spot Scanners	<i>B. Agusta and M. S. Hess</i>
3,443,176	Low Resistivity Semiconductor Underpass Connector and Fabrication Method Therefor	<i>E. T. Kozol and J. P. Pawletko V. C. Martin</i>
3,443,181	Drive Circuit for Carriage Stepping Motor	<i>J. R. Cielo</i>
3,443,186	Reversing Motor Drive for Type Bar	<i>H. S. Hoffman, Jr. and H. T. Lee</i>
3,443,194	DC-to-DC Converter with Continuous Feed to the Load	<i>C. A. Kelley and R. L. Pierson</i>
3,443,195	DC-to-DC Converter with Continuous Feed to the Load	<i>J. J. Schweih</i>
3,443,227	Apparatus for Indicating the Transient Response of Circuit Elements	<i>W. W. Ficker, T. J. Rajac and A. A. Stricker</i>
3,443,442	Selectively Operable Intermittent Motion Apparatus	<i>M. H. Bolt and H. H. Nick</i>
3,443,707	Workpiece Rack Unloader Apparatus	<i>R. A. Delaney and J. J. Williams, Jr</i>
3,444,470	Pulse Discriminating Latch	<i>R. P. Fletcher</i>
3,444,501	Thermistor and Method of Fabrication	<i>H. G. Leilich, W. H. Rhodes, Jr. and W. F. Shutler</i>
3,444,526	Storage System Using a Storage Device Having Defective Storage Locations	<i>R. L. Gamblin</i>
3,444,531	Chain Store Magnetic Memory Array	<i>J. W. Irwin</i>
3,444,539	Phase Sensitive Microwave Memory Device	<i>E. Paulus</i>
3,444,541	Tape Inter-block Gap Size Control	<i>A. A. Stricker and W. J. Walker</i>
3,444,550	Logarithmic Analog to Digital Converter	<i>J. M. Ellul</i>
3,444,617	Self-positioning and Collapsing Standoff for a Printed Circuit Connection and Method of Achieving the Same	<i>J. A. Armstrong and N. Braslau</i>
3,444,839	Automatic Spray Painting Machine	<i>R. S. Haines</i>
3,445,167	Optical Sampling Scope-stroboscope Using a Pulsed Laser	<i>P. T. Woodberry and H. Koretzky</i>
3,445,264	Method and Composition for Treating the Surface of Polymeric Articles to Improve Adhesion	<i>R. G. Rinaldi and B. B. Moore</i>
3,445,355	Method and Composition for the Electrolytic Etching of Beryllium-copper Alloys	<i>J. A. Armstrong</i>
3,445,641	Serial Digital Adder Employing a Compressed Data Format	<i>G. Kohn and D. Seitzer</i>
3,445,668	Optical Coincidence Detector Utilizing (1, -1, 0) Surface or its Crystallo- graphic Equivalent in Crystals of the 42m or 43m Class for Mixing Two Orthogonally Polarized Pulses	<i>R. F. Rutz</i>
3,445,682	Signals Employing a Tristable Tunnel Diode Sensing Circuit	<i>J. P. Gilbey and L. Hershoff</i>
3,445,686	Solid State Transformer	<i>L. Esaki, W. E. Howard, Jr. and P. J. Stiles</i>
3,445,707	Mica Membrane Mounting Structure for Cathode-ray Storage Tube	<i>R. P. Pecoraro and O. Bilous</i>
3,445,733	Metal-degenerate Semiconductor-Insulator-Metal Sandwich Exhibiting Volt- age Controlled Negative Resistance Characteristics	<i>J. J. Rooney, Jr. T. N. Criscimagna</i>
3,445,734	Single Diffused Surface Transistor and Method of Making Same	<i>J. C. Cooper and W. P. Wissick</i>
3,445,756	Circuit Providing Shift Phase Which is Variable with Frequency	<i>W. P. Wissick</i>
3,445,817	Meta-cyclic Command Generator	<i>G. C. Driscoll</i>
3,445,819	Multi-system Sharing of Data Processing Units	<i>R. A. Myers</i>
3,445,820	Overlapped and Underlapped Accessing of Multi-speed Storage Devices	<i>R. W. Keyes</i>
3,445,822	Communication Arrangement in Data Processing System	<i>D. Seitzer</i>
3,445,826	Electro-optic Storage Device	<i>S. Middelhoeck</i>
3,445,827	Memory Controlled Shift Register Display Device	<i>T. S. Cooper and D. E. Norton</i>
3,445,828	Balancing Driver Device for Magnetic Film Memory	<i>G. Cheroff and F. Hochberg</i>
3,445,830	Magnetic Thin Film Storage Devices with Rotatable Initial Susceptibility Properties	<i>W. N. Dunlap, Jr., H. Koretzky and H. D. McCabe</i>
3,445,831	Drive System for a Magnetic Core Array	<i>J. H. King, Jr., C. J. Tunis and M. P. Marcus</i>
3,445,924	Method for Fabrication Insulated-gate Field Effect Transistors Having Con- trolled Operating Characteristics	<i>P. P. Castrucci</i>
3,446,657	Coating Method	<i>J. M. Engel</i>
3,446,950	Adaptive Categorizer	<i>B. G. Thompson and W. L. McDonald</i>
3,446,995	Semiconductor Circuits, Devices and Methods of Improving Electrical Char- acteristics of Latter	<i>S. A. Catta, H. A. Carlson, G. D. Granito, L. W. Kaumeyer, A. U. Marcotte and B. U. Messina</i>
3,447,021	Electrostatic Storage Display Device	
3,447,134	Programming Apparatus on a Document Printer	
3,447,135	Peripheral Data Exchange	