

Patents Recently Issued to IBM Inventors

December 1969 and January 1970

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3,481,184	Core Testing Methods and Apparatus.....	E. L. Boyd
3,481,185	Core Testing.....	W. B. Ittner, III
3,481,195	Record Card Machine.....	T. A. Henrickson and W. L. Stahl
3,481,393	Modular Cooling System.....	R. C. Chu
3,481,445	Cartridge Ribbon Supply.....	D. C. Roller and V. D. Engle
3,481,589	Xerographic Fusing Apparatus.....	J. V. Cely and R. T. Ritchie
3,481,597	Document Feeding Apparatus.....	D. J. Wanek
3,481,655	Bearing Retainer and Mount.....	E. C. Campbell
3,481,661	Light Deflector.....	T. J. Harris
3,481,777	Electroless Coating Method for Making Printed Circuits.....	H. K. Spannake
3,482,057	Automatic Intercept System.....	G. F. Abbott, J. A. Ceonzo, J. F. Isenberg, Jr., R. A. Johnson and J. M. Regan
3,482,155	Time Optimal Servo Control System.....	T. R. Fredriksen
3,482,176	Memory Sense Amplifier.....	H. S. Yourke and R. W. Fletcher
3,482,182	Controlled Systems for Effecting Selective Lasing.....	K. M. Kosanke, W. W. Kulcke and E. Max
3,482,188	Variable Frequency Phase Shift Oscillator Utilizing Differential Amplifiers...	W. G. Crouse
3,482,210	Character Recognition System Using a Plurality of Delayed Scans for Determining Character Features.....	W. B. Lozier, Jr. and J. D. Luciani
3,482,211	Character Recognition System.....	N. De Claris, J. C. Greenson, Jr. and T. B. Horgan
3,482,222	Electrical Switching Apparatus.....	A. W. Vinal
3,483,029	Method and Composition for Depositing Nickel-Iron-Boron Magnetic Films	H. Koretzky and A. F. Schmeckenbecher
3,483,383	Optical Pulse Communication and Ranging System by Amplitude Modulating Laser Injection Source and Detecting Optical Pulse Width.....	K. L. Konnerth, Jr.
3,483,398	Non-saturating Inhibit Switching Circuit.....	D. W. Murphy, J. R. Turnbull, Jr. and J. L. Walsh
3,483,484	Multivibrator.....	W. O. Luetze
3,483,486	Multiple Photon Laser.....	P. P. Sorokin
3,483,495	Pulse Transformer and Method of Fabrication.....	K. Clark, F. L. De Turris and R. G. Kaper
3,483,497	Pulse Transformer.....	K. Clark and R. F. Lia
3,483,527	Efficient Justification Quality Control.....	D. W. Terry
3,483,534	Nondestructive-readout Memory Device.....	E. E. Castellani, G. E. Keeffe and L. T. Romankiw
3,484,167	Formation Flight Control System.....	H. M. Burns
3,484,237	Organic Photoconductive Compositions and Their Use in Electrophotographic Processes.....	M. D. Shattuck and U. Vahtra
3,484,241	Diazo Type Films with Extended Linear Latitude.....	E. M. Evleth and C. E. Herrick, Jr.
3,484,318	Method of Concurrently Producing Visible and Magnetizable Indicia.....	F. R. Neufeld and M. P. Prater
3,484,508	Process of Making Spongeous Transfer Medium for Moderate Impact Applications.....	H. T. Findlay
3,484,592	Uniform Shift Division.....	O. L. MacSorley, D. R. Spencer and J. F. Timm
3,484,756	Coupled Magnetic Film Memory.....	O. Voegeli
3,485,167	Print Unit for Printing Tapes and Sales Checks.....	J. M. Creedon and J. H. Massey
3,485,245	Portable Fluid Heater.....	R. J. Lahr, A. L. Mix, Jr. and H. W. Terwilliger
3,485,486	Safety Arrangement for Xerographic Fusing Apparatus.....	G. E. Siemer
3,485,688	Method for Printing Circuit Designs.....	G. P. Irvine
3,485,725	Method of Increasing the Deposition Rate of Electroless Solutions.....	H. Koretzky
3,485,903	Process of Making a Spongeous Transfer Medium.....	H. T. Findlay and W. H. Horne
3,485,996	Laser Welding.....	C. Chiou, T. F. Smith and S. S. Huang
3,486,096	Drive Circuits for Stepping Motor Including Rapid Current Build-up Means.	G. W. Vancleave
3,486,149	Variable Ratio Die Cast Pulse Transformer.....	W. A. Klein
3,486,220	Method of Manufacturing Magnetic Transducers.....	R. E. Braun, H. Tiao and A. A. Verdibello
3,486,749	Card Feeding Mechanism.....	R. A. Billings
3,487,202	Image Processing System.....	W. H. Sass
3,487,233	Detector with Upper and Lower Threshold Points.....	W. J. Reap

3,487,235	Floating Tunnel Diode Hybrid Latch.....	F. A. Karner
3,487,301	Measurement of Semiconductor Resistivity Profiles by Measuring Voltages, Calculating Apparent Resistivities, and Applying Correction Factors.....	E. E. Gardner, E. F. Gorey, P. A. Schumann, Jr. and T. H. Yeh
3,487,320	Biased Bridge Coupled Bipolar Amplifier.....	R. F. Heidecker and J. R. Leonard
3,487,361	Burst Error Correction System.....	A. H. Frey, Jr.
3,487,362	Transmission Error Detection and Correction System.....	A. H. Frey, Jr.
3,487,372	High-speed Memory Device with Improved Read-store Circuits.....	A. W. Vinal

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3,488,106	Spatial Filtering System for Performing Differentiation.....	A. W. Lohmann
3,488,166	Method for Activating Plastics, Subsequent Metallization and Article of Manufacture Resulting Therefrom.....	Z. Kovac and J. D. Olsen
3,488,167	Magnetic Memory Element with Variable Exchange Coupling.....	H. Chang and D. A. Thompson
3,488,286	Method of Producing High Curie Temperature EuO Single Crystals.....	F. Holtzberg and M. W. Shafer
3,488,518	Peak Voltage Storage and Noise Eliminating Circuit.....	R. Taylor
3,488,633	Automatic Channel Apparatus.....	W. C. Hoskinson, E. J. Annunziata, F. W. Wise and E. B. Pierce
3,488,637	Looped Plated Wire Magnetic Memory.....	R. F. Elfant and K. R. Grebe
3,488,647	Magnetic Core Switching Circuit.....	P. E. Stuckert
3,488,840	Method of Connecting Microminiaturizing Devices to Circuit Panels.....	I. M. Hymes, R. P. Sopher and P. A. Totta
3,489,558	Photoconductive Benzobisthiazoles and Their Use in Electro-graphic Processes.....	N. J. Clecak, R. J. Cox, S. L. Solar and H. K. Wurster
3,489,622	Method of Making High Frequency Transistors.....	F. Barson and V. A. Dhaka
3,489,919	Comparator Circuit with High Input Voltage Isolation.....	A. J. Wolterman
3,489,963	Integrated Differential Transistor.....	J. B. Gillett
3,490,002	Complete Scanning Cycle Detector for Character Recognition Systems.....	W. W. Hardin, J. J. Kennedy and N. R. Plummer
3,490,004	Data Processing and Printing Apparatus.....	R. F. Ross
3,490,005	Instruction Handling Unit for Program Loops.....	D. W. Anderson, R. J. Litwiller, D. M. Powers and F. J. Sparacio
3,490,009	Nondestructive-read Memory.....	R. F. Elfant
3,490,027	Transistor Converter Amplifier Circuit.....	L. V. Galetto and J. J. Rooney
3,490,672	Motion Control Device.....	G. A. Fisher and H. E. Van Winkle
3,490,690	Data Reduction System.....	C. T. Apple, L. F. Little, J. T. Dervan III and C. V. Davis
3,490,763	Mechanism for Feeding Sheet Material.....	D. P. Darwin
3,490,841	Photoconductor Drum Locator.....	J. V. Cely, Jr. and R. T. Ritchie
3,490,962	Diffusion Process.....	M. C. Duffy, D. P. Kennedy, P. C. Murley, W. J. Armstrong and J. J. Seaboldt
3,491,303	Information Detecting Apparatus.....	A. M. Gindi
3,491,325	Temperature Compensation for Semiconductor Devices.....	S. M. Hu
3,491,407	Press for Ferrite Cores.....	R. M. Gustafson
3,491,946	Fluid-actuated Synchronizing Apparatus.....	H. R. Muller
3,492,158	Thin Films with Inherent NDRO Properties and Their Production.....	K. B. Scow, J. P. Anderson and B. I. Bertelsen
3,492,464	Record Medium Reading Apparatus.....	Y. M. Hill and W. H. Niehoff II
3,492,468	Division of Negative-dividend Expressed in Two's Complement Form.....	H. E. Frye
3,492,470	Reactive Analog Correlator.....	G. G. Gorbatenko
3,492,498	Signal Following Circuit.....	M. R. Bartz, D. W. Baxter and G. A. Garry
3,492,502	Bidirectional Capacitive Load Driver.....	D. C. Chang
3,492,572	Programmable Electronic Circuit Testing Apparatus Having a Plural Multi- function Test Condition Generating Circuits.....	H. E. Jones, F. A. Karner and E. H. Millham
3,492,646	Cross Correlation and Decision Making Apparatus.....	J. F. Bene and G. A. Garry
3,492,648	Keyboard Selection System.....	E. S. Olsen and R. W. Love
3,492,653	Statistical Error Reduction in Character Recognition Systems.....	T. Fosdick A. Hamburgers and R. B. Hennis
3,492,655	Data Processing for Bank Proof Machine.....	S. Deskevich and J. B. Newman
3,492,661	Monolithic Associative Memory Cell.....	W. D. Pricer