

Patents Recently Issued to IBM Inventors

February and March 1970

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3,492,713	Apparatus and Method for Forming and Positioning.....	W. F. White
3,493,287	Optical Detour Phase System.....	A. W. Lohmann
3,493,301	Document Processing Method.....	A. J. Sable, C. J. Bashe and R. E. Sandt
3,493,348	Buoyant Device in Crystal Growing.....	R. G. Dessauer
3,493,679	Phase Synchronizer for a Data Receiver.....	J. S. Chomicki
3,493,732	Digital Positioner.....	D. Zeheb
3,493,770	Radiation Sensitive Control System for Crystal Growing Apparatus.....	R. G. Dessauer, E. J. Patzner and M. R. Poponiak
3,493,779	Thin Film Parametric Oscillator.....	P. E. Stuckert and J. G. Hewitt, Jr.
3,493,788	Memory Cell Having a Resistance Network to Prevent Saturation.....	A. R. Berding
3,493,835	Noiseless Motor Switch.....	J. L. Hellmann
3,493,853	Method of Determining Logic Circuit Stability by Matching Transmission Line Reactive Impedance to Circuit Reactive Impedance and Detecting Circuit Oscillations.....	P. D. Bellamy and D. P. Repchick
3,493,858	Inflatable Probe Apparatus for Uniformly Contacting and Testing Microcircuits.....	D. G. Baron and C. E. Ruoff
3,493,875	Variable Attenuation Circuit.....	P. E. Stuckert
3,493,885	Photobleachable Q-Spoiler Dye for Laser Operation.....	P. P. Sorokin
3,493,891	Avalanche Breakdown Semiconductor Laser.....	R. E. Fern and K. Weiser
3,493,928	Electronic Keyboard Terminal Code Checking System.....	H. Y. Juliusburger
3,493,931	Diode-steered Matrix Selection Switch.....	H. R. Foglia
3,493,932	Integrated Switching Matrix Comprising Field-effect Devices.....	H. N. Yu
3,493,934	Tone Decoder Having Plural Reference Tones.....	W. K. French
3,493,958	Bipolar Analog to Digital Converter.....	G. G. Gorbatenko and M. J. Kimmel
3,494,550	Universal Keyboard.....	R. K. Hayes and L. H. Sedaris
3,494,612	Actuator for a Pressure Roll.....	D. G. Killam
3,495,061	Contacts for Reed Switches.....	S. S. Coffin and R. J. Mance
3,495,074	Digital Control System with Integral Clamping.....	J. O. Jacques
3,495,075	Shifting Apparatus.....	P. R. Leal and A. D. Lin
3,495,095	Switching Circuits Employing Esaki Diodes.....	A. J. Gruodis
3,495,097	Signal Detector Circuit.....	P. Abramson and W. K. French
3,495,133	Circuit Structure Including Semiconductive Chip Devices Joined to a Substrate by Solder Contacts.....	L. F. Miller
3,495,134	Rota-pak System Concept.....	J. F. Collins, H. T. Johnston, R. M. Smith and F. X. Walsh, Jr.
3,495,145	Position-control Servomechanism.....	F. J. Sordello and C. R. Wilford
3,495,235	Analog To Digital Converter.....	H. Ottesen
3,495,911	Extended Range Interferometer.....	R. D. Durand and T. S. Hahs
3,495,996	Ceramic Composition, Improved Electronic Devices Employing Same and Method of Fabrication.....	R. A. Delaney and R. K. Spielberger
3,496,014	Method of Controlling the Magnetic Characteristics of an Electrolessly Deposited Magnetic Film.....	H. Koretzky and A. F. Schmeckenbecher
3,496,483	Laser Polarization Modulation Techniques.....	E. Max and P. T. Chang
3,496,551	Task Selection in a Multi-processor Computing System.....	G. C. Driscoll and M. M. Lehman
3,496,634	Method of Wiring and Metal Embedding an Electrical Back Panel.....	F. J. Kurtz and J. C. Logue
3,497,284	Achromatic Light Deflector.....	K. M. Kosanke, W. W. Kulcke and E. Max
3,497,288	Code Translation Filter.....	A. W. Lohmann
3,497,407	Etching of Semiconductor Coatings of SiO ₂	R. P. Esch and W. A. Pliskin
3,497,411	Method and Materials for Printing Smooth Magnetic Layers.....	P. Chebiniak
3,497,613	Display Device with Video Signals Interleaved in Segments of a Cyclical Storage.....	J. L. Botjer, E. O. Donner, H. E. Frye and H. J. Keeler
3,497,627	Rate Conversion System.....	H. L. Blasbalg, J. Y. Hayase and H. F. Najjar
3,497,685	Fault Location System.....	T. S. Stafford and J. A. Sarubbi
3,497,701	Light Pen Optical System for Display Apparatus.....	J. J. Dalton
3,497,718	Bipolar Integrated Shift Register.....	C. E. Ruoff
3,497,724	Waveshaping Circuit Apparatus.....	T. P. Harper
3,497,748	Target Element for Electrostatic Storage Display Tube.....	J. M. Engel
3,497,797	Test System for Magnetic Storage Arrays Including Plural Sampling Means for Sampling an Output Signal at Different Times.....	E. F. Meyers and L. J. Stenberg

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3,498,191	Methods of Preparing Reference Patterns for Pattern Recognition Systems...	W. E. Dickinson
3,498,452	Pin Length Sorter	J. Aronstein, R. G. Gunthert and C. Trollmann
3,498,533	Tubular Centrifuge	J. F. Schomburg
3,498,535	Encoder Carry Mechanism	H. A. Panissidi
3,498,836	Method for Obtaining Single Crystal Ferrite Films	R. J. Gambino
3,498,837	Vacuum Coating Chromium-Chromium Oxide on Recording Member	J. K. Alstad, G. Bate, R. C. Miller, J. R. Morrison and D. E. Speliotis
3,498,894	Preparation of Compound Semiconductors by Fused Salt Electrolysis	J. J. Cuomo and R. J. Gambino
3,499,124	FM Recording and Reproducing Arrangement with Single Carrier and Proportional Compensation	D. Wortzman
3,499,203	Chip Positioning Machine	K. Clark, G. C. Beck, E. J. Creighton, F. L. De Turris, J. G. Drop, J. J. Godat, A. H. Larsen, T. J. Rajac, G. R. Santillo, Jr. and W. J. Schuelke
3,499,204	Electrical Control System for a Chip Positioning Machine	J. G. Drop
3,499,516	Tapeless Carriage Control	F. W. Schaaf
3,499,614	Automatic Web Buffering Means	P. J. Badum
3,499,700	Light Beam Deflection System	T. J. Harris and W. W. Kulcke
3,499,763	Bis Phenols as High Opacity Diazotype Couplers	N. J. Clecak and R. J. Cox
3,499,975	Repeated Scan Digitally Coded Facsimile Transmission	R. B. Arps
3,499,983	Video Scanning System with High Interlace Ratio	C. T. Masters
3,499,989	Speech Analysis Through Formant Detection	H. W. Cotterman and J. H. King, Jr.
3,499,990	Speech Analyzing System	G. L. Clapper
3,500,032	Analog Multiplier, Divider, Variable Gain Element	F. Buckley and L. P. Fitzgerald
3,500,071	Feedback Current Switch with Load-line Displacing Network	T. S. Jen
3,500,081	Low Inertia Stepping Motor	J. E. Drejza, E. T. Kozol, R. E. Pelkie and J. E. Wallace
3,500,141	Transistor Structure	L. Esaki and R. A. Laff
3,500,184	Transmission Line Simulation	I. T. Ho
3,500,192	Oscillatory Probe System for Contacting and Testing a Circuit Point Through a High Density of Wires	C. J. Donaher and J. J. Steranko
3,500,220	Sense Amplifier Adapted for Monolithic Fabrication	F. Buckley
3,500,224	Differential Amplifier and Bias Circuit Adapted for Monolithic Fabrication ..	J. C. Greeson, Jr.
3,500,237	Mode Coupling Laser Apparatus	R. A. Myers and H. Wieder
3,500,255	Integrated Circuit Directional Coupler	I. T. Ho and S. K. Mullick
3,500,301	Sonic Detection Apparatus	J. H. Meier
3,500,323	Handwritten Character Recognition Apparatus	H. L. Funk and S. F. Kambic
3,500,324	Analog Segmentation Apparatus	G. G. Gorbatenko and G. D. Miller
3,500,325	Apparatus for Separating Closely Spaced Characters in a Character Recognition Machine	E. C. Greanias, D. J. Lem and P. F. Meagher
3,500,328	Data System Microprogramming Control	D. E. Wallis
3,500,337	Data Handling System Employing a Full Word Main Memory Transfer with Individual Indirect Byte Addressing and Processing	K. K. Womack
3,500,341	Bistable Monolithic Storage Matrix with Non-restrictive Readout Performing Logical Operations	A. Proudman
3,500,349	Write Mechanism for a Thin Film Memory	R. L. Gamblin and P. A. Lord
3,500,385	Coded Data Storage and Retrieval System	M. Padalino, W. J. Karjewski and H. Nagakura
3,501,221	Optical Filtering	A. W. Lohmann
3,501,293	Photoconductive Benzobisthiazoles and Their Use in Electrophotographic Processes	N. J. Clecak, R. J. Cox, S. L. Solar and H. K. Wurster
3,501,623	High Speed Skip and Search	T. S. Robinson
3,501,625	Analog To Digital Converter	G. G. Gorbatenko
3,501,640	Optical Communication System	T. J. Harris
3,501,670	Yoke DI/DT Monitoring Cathode Ray Tube Protection	D. L. Johnston, M. M. Siverling and M. G. Wilson
3,501,748	Error Control for Memory	W. L. Duda and E. Max
3,502,190	Tapeless Carriage Control System	J. L. Smith
3,502,520	Process of Making Patterned Unitary Solid Bodies From Finely Divided Discrete Particles	B. Schwartz
3,503,050	Wave Energy Recording in Radiation Sensitive Medium	R. S. Schools and G. T. Sincerbox
3,503,059	Pulse Crowding Compensation for Magnetic Recording	L. E. Ambrico
3,503,060	Random Access Multiple Disc Storage Device	W. A. Goddard and J. J. Lynott
3,503,108	Cutting and Sawing Blades	D. J. Kidgell and F. A. Basha
3,503,272	Positioning Apparatus	T. J. Cochran and J. C. Formichelli
3,503,670	Multifrequency Light Processor and Digital Deflector	K. M. Kosanke, W. W. Kulcke and E. Max

3,504,112	Parallel Picture Transmission System.....	<i>E. L. Gruenberg</i>
3,504,167	Carry Select Divide Decode.....	<i>C. Kurtz</i>
3,504,340	Triple Error Correction Circuit.....	<i>C. A. Allen</i>
3,504,349	Address Examination Mechanism for Use in a System Operating with Dynamic Storage Relocation.....	<i>D. E. Wallis</i>
3,504,351	Data Store.....	<i>P. A. Gardner and M. H. Hallett</i>
3,504,356	Magnetic Memory Sense Amplifier.....	<i>A. M. Patel and J. W. Sumilas</i>