

Patents Recently Issued to IBM Inventors

January and February 1971

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3,551,986	Third Wire Feeder Apparatus Employing Vacuum Capture	J. H. Lima, D. A. Marquis and H. Sternberg
3,552,177	Strap Former and Placement Apparatus	A. W. Orlando and A. A. Pantusco
3,552,383	Method and System for Estimation of Arterial Pressure	D. T. E. Krueger and L. C. Sheppard
3,552,825	Variable Digital Light Deflector	A. G. Wellbrock
3,553,491	Circuit for Sensing Binary Signals from a High-speed Memory Device	R. A. Schulz
3,553,620	Combined Transformer and Indicator Device	J. R. Cielo and H. S. Hoffman, Jr.
3,553,646	Format Control in a Character Recognition System	W. W. Hardin and P. J. Traglia
3,553,655	Short Forward and Conditional Skip Hardware	D. A. Anderson and F. J. Sparacio
3,553,658	Active Storage Array Having Diodes for Storage Elements	W. D. Pricer
3,553,830	Method for Making Integrated Circuit Apparatus	F. F. Jenny and R. E. Thun
3,554,634	Optical Logic Device for Position-encoding a Light Beam	W. L. Duda, K. M. Kosanke, W. W. Kulcke and E. Max
3,554,640	Drive Coupling System	T. A. Hoskins
3,554,741	Polymeric Photoconductors of N-vinyl Indole and Their Use in Electrophotographic Processes	E. Gipstein and W. A. Hewett
3,554,889	Color Cathode-ray-tube Screens	C. E. Hyman and G. M. Krembs
3,554,891	Automatic Impurity Profiling Machine	M. C. Duffy and R. L. Hudson
3,555,204	Electronic Sweep Magnetic Scanning Transducer	R. E. Braun
3,555,235	Metallic Surface Fusion Apparatus	W. C. Darrow, R. H. Holmwood, K. A. Snyder and W. C. Treiber
3,555,348	Cathode-ray-tube Screen Protection System	V. C. Martin
3,555,454	Electron Beam Addressed Digital Scanlaser	R. A. Myers and R. V. Pole
3,555,517	Early Error Detection System for Data Processing Machine	H. F. Heath, Jr. and S. S. Husson
3,555,545	System of Recording in Radiation-sensitive Medium	J. L. Reynolds, R. S. Schools and G. T. Sincerbox
3,555,916	Positioning Device	W. G. Santy
3,556,630	Method and Apparatus for Obtaining, by a Series of Samples, the Intensity Distribution Across Sources of Incoherent Electromagnetic Waves to Produce a Single Composite Picture	J. S. Wilczynski
3,556,638	Deflector Plate for Light Deflector	W. K. Banks and M. E. Rabedeau
3,556,642	Micro-objective Lens System	R. E. Tibbetts and J. S. Wilczynski
3,556,643	Highly Corrected Seven Element Gauss-type Reduction Lens	R. E. Tibbetts and J. S. Wilczynski
3,556,950	Method and Apparatus for Automatic Electrochemical Analysis	H. Dahms
3,557,444	Monolithic Bipolar Transistor Logic Circuit and Method of Forming Same	C. E. Ruoff
3,557,929	Programmed Line Pitch Printer	F. W. Schaaf
3,558,332	Low Firing Phosphate-bonded Alumina Dielectric Having Improved Adhesion to Metal	R. C. Buchanan
3,558,352	Metallization Process	P. P. Castrucci, D. DeWitt, V. A. Dhaka and W. E. Mutter
3,558,374	Polycrystalline Film Having Controlled Grain Size and Method of Making Same	D. W. Boss, V. Y. Doo and W. N. Patterson
3,558,864	Reference Point Determining System	W. K. French
3,558,899	System and Method for Using Numerically Coded Etched Indicia for Identification of Pieces of Semiconductor Material	M. Morgan and H. R. Rottmann
3,558,917	Threshold Amplitude Detector Eliminating Low-level Noises Employing the Threshold-biased Interruptable Feedback for Providing Limited Range High-gain Amplifier Operation	W. G. Crouse
3,558,932	Data Shift Circuit Employing Bistable and Monostable Multivibrators for Providing Equal Time Delays in Leading and Trailing Edges of Data Pulses	W. G. Crouse

3,558,979	Overvoltage Protection Circuit	W. M. Lorenz
3,559,003	Universal Metallurgy for Semiconductor Materials	P. L. Beaudouin, R. Glang and J. Riseman
3,559,054	Method of and Apparatus for Mechanically and Electrically Testing the Quality of Joints Bonding a Chip Device to the Surface of the Substrate of a Micro-miniature Module	R. W. Bowers
3,559,083	Digital Demodulator for Frequency Shift Keying Systems	W. G. Crouse
3,559,167	Self-checking Error Checker for Two-rail Coded Data	W. C. Carter and K. A. Duke
3,559,168	Self-checking Error Checker for k -out-of- n Coded Data	W. C. Carter, K. A. Duke and P. R. Schneider
3,559,181	CRT Parameter Error Indicator Panel	F. R. Carlock and W. R. Lamoureux
3,559,183	Instruction Sequence Control	E. H. Sussenguth
3,559,185	Optical Switch	G. Burns, A. W. Smith and W. V. Smith
3,559,186	Memory with Apertured Strip Elements	J. C. Saguis, Jr., M. Teig and R. L. Ward
3,559,189	Serialized Register Data Processing System	W. J. Patzer
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3,559,307	Stylus Actuated Gas Discharge System	E. S. Barrekette and H. B. Baskin
3,559,999	Magnetic Head Positioner for Recording and Reproducing Apparatus	N. K. Perkins
3,560,070	Method for Making Secondary Holograms from Multiplexed Holograms or Integral Photographs Wherein the Screen Effect is Eliminated	K. S. Pennington and R. V. Pole
3,560,080	Apparatus and Method for Adjustably Mounting Lenses	J. S. Wilczynski and W. G. Santy
3,560,204	Printing by Electrical Attraction of Inks	E. P. Damm, Jr.
3,560,210	Method of Recording a Plurality of Holograms and Separable Emulsion Exposure Package Therefor	A. W. Grobin, Jr.
3,560,241	Method of Metallizing a Polysulfone Body	K. C. Davis and G. V. Elmore
3,560,274	Wear-resistant Titanium and Titanium Alloys and Method for Producing Same	H. R. Ogden
3,560,277	Process for Making Semiconductor Bodies Having Power Connections Internal Thereto	R. H. F. Lloyd, S. P. Davis and C. F. Myers
3,560,364	Method for Preparing Thin Unsupported Films of Silicon Nitride	P. J. Burkhardt
3,560,675	Depressible Diaphragm Overlay Switch for Displays	M. Krakinowski and G. R. Stilwell, Jr.
3,560,751	Optical Mark Sensing Device	D. L. Buettner, J. R. Burchfiel, Jr., N. D. Kline, M. J. Sheehan and K. L. Thompson
3,560,754	Photoelectric Particle Separator Using Time Delay	L. A. Kamentsky
3,560,764	Pulse-powered Data Storage Cell	J. J. McDowell
3,560,810	Field-effect Transistor Having Passivated Gate Insulator	P. Balk, D. W. Dong and J. M. Eldrige
3,560,928	Apparatus for Automatically Identifying Fingerprint Cores	J. M. Berger, W. J. Levine and K. Malak
3,560,930	Method and Apparatus for Reducing Data in a Pattern Recognition System ..	P. H. Howard
3,560,931	Circuitry to Improve Resolution in Character Recognition	R. G. Neville
3,560,934	Arrangement for Effecting Vector Mode Operation in Multiprocessing Systems ..	H. A. Ernst, M. M. Lehman, J. L. Rosenfeld and H. P. Schlaepfi
3,560,940	Time-shared Interconnection Apparatus	F. H. Gaensslen
3,560,942	Clock for Overlapped Memories with Error Correction	C. J. Enright, Jr.
3,560,947	Method and Apparatus for Communication and Storage of Binary Information ...	R. C. Franchini
3,561,108	Alternated Orientation of Chips on Semiconductor Wafers	C. E. Benjamin
3,561,110	Method of Making Connections and Conductive Paths	R. A. Feulner, S. A. Milkovich, M. D. Beacon and L. F. Miller
3,561,656	Single Capstan Magnetic Tape Drive System Without Tape Stick	F. R. Hertrich
3,561,755	Document Feed Mechanism	B. M. Brue
3,562,444	Recording Head Assembly	H. M. Hoogendoorn, H. E. Liberman, B. Narken and B. Sunners
3,562,536	Radiation-sensitive Semiconductor Wafer Identification System	R. H. Brunner and O. C. Woodard
3,562,547	Protection Diode for Integrated Circuit	G. D. Brode, J. F. Malia and W. K. Meed
3,562,554	Bipolar Sense Amplifier with Noise Rejection	J. L. Von Feldt
3,562,635	Apparatus and Method for Detecting Defects in Magnetic Tape	G. R. Parker
3,562,661	Digital Automatic Phase and Frequency Control System	D. F. Crumb and R. F. Heidecker

3,562,711	Apparatus for Detecting Circuit Malfunctions	<i>R. H. Davis, P. E. Boudreau and J. S. Harris</i>
3,564,142	Method of Multiplex Speech Synthesis	<i>E. H. Rothauser and K. K. Bandat</i>
3,564,145	Serial Loop Data Transmission System Fault Locator	<i>H. Deutsch, D. M. Knepper, Sr., W. D. VanGieson, Jr. and A. Warner</i>
3,564,290	Regenerative FET Source Follower	<i>G. Sonoda</i>
3,564,300	Pulse Power Data Storage Cell	<i>R. A. Henle</i>
3,564,410	Dynamically Calibrated Velocity Instrumentation Technique	<i>G. T. Webb</i>
3,564,502	Channel Position Signaling Method and Means	<i>W. E. Beehner and B. L. McGilvray</i>
3,564,506	Instruction Retry Byte Counter	<i>M. W. Bee and D. J. Lang</i>
3,564,507	Asynchronous Interface for Use Between a Main Memory and a Central Processing Unit	<i>R. W. Faivre and D. E. Waldecker</i>
3,564,510	Selection, Distribution and Display System	<i>D. S. Bagley, A. J. Di Benardo and C. R. Doty, Jr.</i>
3,564,595	Data Interpolation for Computer Control of Machine Tools	<i>A. R. De Florio and D. Wortzman</i>
3,565,514	Light Deflector System	<i>G. Bate and A. G. Wellbrock</i>
3,566,262	Molecular Spectrometer Using Point Tunneling	<i>W. A. Thompson</i>
3,566,281	Electric Pulse Wave Clipping Circuitry	<i>D. D. Baumann</i>
3,566,296	Transistor Differential Amplifier	<i>C. C. Liu</i>
3,566,306	Gunn Oscillator With P-N Junction Contact for Fast Low-power On-Off Control	<i>R. M. Esposito, P. S. Hauge and C. Lanza</i>
3,566,353	Precision Cathode-ray-tube Scanner with Reference Grid Network	<i>R. G. Gray</i>
3,566,354	Contour Pattern Scanner	<i>W. K. French</i>
3,566,363	Processor-to-Processor Communication in a Multiprocessor Computer System	<i>G. C. Driscoll, Jr.</i>
3,566,367	Selection Circuit	<i>P. A. E. Gardner, M. H. Hallett and P. J. Titman</i>
3,566,375	Multiplexing System for a High-speed Storage Device	<i>R. A. Schulz</i>
3,566,381	Data Storage Means Having Both Fixed and Removable Recording Disk Means	<i>W. S. Buslik and R. E. Marrs</i>
3,566,397	Dual Slope Analog-to-Digital Converter	<i>C. A. Walton</i>