

Patents Recently Issued to IBM Inventors

October and November 1969

October 1969

3,471,309	Thermal Copying Process with Lignin Reaction in Copy Sheet	<i>J. O. Thompson</i>
3,471,342	Wear-resistant Titanium and Titanium Alloys and Method for Producing Same	<i>R. A. Wood</i>
3,471,396	RF Cathodic Sputtering Apparatus Having an Electrically Conductive Housing	<i>P. D. Davidse</i>
3,471,415	Magnetic Inks Containing Lecithin as a Surfactant	<i>H. Friedman, R. N. Langmaid and D. E. Pickart</i>
3,471,651	Telephone Ringing Circuit	<i>J. Saia and D. L. Spencer</i>
3,471,654	Transducer Driving Arrangement for Recording and Reproducing Apparatus . .	<i>W. L. Dollemayer</i>
3,471,770	Pulsed Current Generating Circuits	<i>K. E. Haire</i>
3,471,778	Method of Testing an Ordered Multi-element Electrical Circuit Array Including Connecting Certain Elements in Common	<i>J. P. Bennett, D. Gordon and M. M. Kutcher</i>
3,471,807	Continuously Tunable Pulsed Laser System	<i>M. R. Kagan</i>
3,471,832	Character Recognition Apparatus	<i>J. P. Pawletko</i>
3,471,839	Storage Sensing System for a Magnetic Matrix Employing Two Storage Elements per Bit	<i>Q. W. Simkins and N. G. Vogl, Jr. E. G. Brooks and J. W. McCullough</i>
3,471,853	Analog to Digital Converter	<i>R. Glang and L. I. Maissel</i>
3,472,074	Maximum Thermometer for Surface Temperature Measurements	<i>J. W. Broderick, R. M. Fiorenza, M. Kozar and H. L. Lineman</i>
3,472,376	Electrical Component Tester with Preferential Sorting	
3,472,971	Magnetic Tape Duplicating Device with Fluid Pressure Applied Through Head Gap	<i>R. J. van den Berg</i>
3,473,042	Automatic Threading Status Detection Means	<i>A. W. Orlando</i>
3,473,078	Proportionalized Velocity Deflection System	<i>N. Lazarchick, Jr. and K. A. Pearson</i>
3,473,093	Semiconductor Device Having Compensated Barrier Zones Between N-P Junctions	<i>O. Bilous, D. R. Meulmans, R. P. Pecoraro and M. C. Selby</i>
3,473,114	Method and Apparatus for Testing Magnetostrictive Delay Lines by Checking for Signal Coincidence between Signal Pulses and Reference Pulses in Dif- ferent Phase Positions of the Reference Pulses	<i>W. E. Houck, M. O. Maerz, B. L. Oliver and D. L. Silsbee</i>
3,473,115	Method and Apparatus for Testing Magnetostrictive Delay Lines by Checking for Signal Coincidence between Signal Pulses and Reference Pulses in Dif- ferent Phase Positions of the Reference Pulses	<i>B. L. Oliver</i>
3,473,132	Digital Demodulator	<i>R. E. Keeler, D. G. Freeman and R. van Blerkom</i>
3,473,164	Margin Turnaround Technique for Photodigital Reader	<i>R. A. Jensen</i>
3,473,212	Chip Placement Head	<i>G. C. Beck, K. Clark, J. G. Drop, J. J. Godat, A. H. Larsen, T. J. Rajac and G. R. Santillo, Jr.</i>
3,473,769	Retainer for Flexible Leads	<i>R. N. James</i>
3,473,976	Carrier Lifetime Killer Doping Process for Semiconductor Structures and the Product Formed Thereby	<i>P. P. Castrucci, M. S. Hess and R. P. Pecoraro</i>
3,474,021	Method of Forming Openings Using Sequential Sputtering and Chemical Etching	<i>P. D. Davidse, V. A. Dhaka and L. I. Maissel</i>
3,474,239	Adder, Shifter and Logical Apparatus	<i>R. G. Allen, C. Kurtz, O. L. MacSorley, D. R. Spencer and W. C. Stetler</i>
3,474,385	Coaxial Cable Connector	<i>F. P. Cefarelli and R. T. Evans</i>
3,474,418	Data Tracking System	<i>R. A. Jensen</i>
3,474,422	Magnetic Core Memory Array Construction	<i>R. M. Gustafson</i>
3,474,521	Bonding Method	<i>C. W. Schwenn</i>
3,474,530	Mass Production of Electronic Devices	<i>N. G. Ainslie, D. S. Chhabra, D. W. Jepsen and W. E. Mutter</i>
3,475,071	Tunnel Diode Devices	<i>S. S. Im</i>
3,475,621	Standardized High-density Integrated Circuit Arrangement and Method	<i>A. Weinberger</i>
3,475,725	Encoding Transmission System	<i>A. H. Frey, Jr.</i>
3,475,734	Tracking System for Deformation Recording	<i>F. Kurzweil, Jr. and F. J. Sordello</i>
3,475,737	Magnetic Information Storage Apparatus	<i>H. J. Kump and C. H. Stapper, Jr.</i>
3,475,738	Magneto-optical Data Storage	<i>H. P. Louis and S. Methfessel</i>

3,475,805	Apparatus for Positioning Articles on Substrates	<i>H. R. Rottmann</i>
3,476,152	Multiple Outlet Valve	<i>C. H. Locke</i>
3,476,383	Non-actuated Inertial Brake	<i>W. L. Wilcox and R. E. Wagner</i>
3,476,561	Photoetch Method	<i>B. I. Bertelsen and A. E. Reimer</i>
3,476,592	Method for Producing Improved Epitaxial Films	<i>M. Berkenblit and A. Reisman</i>
3,476,885	Information Compression Transference Means	<i>E. Shiber and J. A. Shiber</i>
3,476,920	Tens Transfer Mechanism with Provision for End-around Carry	<i>C. G. Deserre and T. L. Johnson</i>
3,476,923	High Speed Multi-input Adder	<i>A. R. Geller</i>
3,476,973	Display System	<i>D. J. Chesarek and Z. D. Reynolds</i>
3,476,996	Hybrid Closed Loop Stepping Motor Control System Including Acceleration and Deceleration Control	<i>T. R. Fredriksen</i>
3,477,051	Die Casting of Core Windings	<i>K. Clark, K. E. Hermann and W. A. Klein</i>
3,477,063	Controller for Data Processing System	<i>D. W. Anderson, F. J. Sparacio and R. M. Tomasulo</i>
3,477,123	Masking Technique for Area Reduction of Planar Transistors	<i>F. Barson and L. L. Kuiper</i>
3,477,252	Slip Clutch	<i>T. F. Flavin</i>
3,477,317	Method for Producing an Improved Die for Use with a Multi-element Punch	<i>L. E. Liander</i>
3,477,626	Paper Feed Device	<i>F. Hilpert</i>
3,478,196	Data Encoder	<i>J. O. Schaefer</i>
3,478,253	Intermetallic Semiconductor Body and Method of Diffusing an n-type Impurity Thereinto	<i>T. H. Yeh and R. M. deFries</i>
3,478,255	Pulse Amplitude Detection Circuit	<i>G. R. Parker and A. A. Verdibello</i>
3,478,267	Reception of Pulses Transmitted at N Times the Nyquist Rate	<i>C. M. Melas</i>
3,478,286	System for Automatically Testing Computer Memories	<i>J. T. Dervan, III</i>
3,478,321	Variable Priority Storage Accessing Control	<i>J. C. Cooper, L. E. King, O. L. MacSorley and W. P. Wissick</i>
3,478,322	Data Processor Employing Electronically Changeable Control Storage	<i>B. O. Evans</i>
3,478,325	Delay Line Data Transfer Apparatus	<i>H. R. Oeters and A. W. Maholick</i>
3,478,328	Continuous Averaging System	<i>W. E. Schillinger</i>
3,478,334	Low Threshold Magnetic Film Memory	<i>H. J. Kump</i>
3,478,335	Chain Magnetic Memory Element	<i>H. G. Leilich and A. F. Schmeckenbecher</i>
3,478,340	Unitized Magnetic Assembly	<i>B. Schwartz and H. L. Turk</i>
3,478,350	Frequency Code Concept Alphabet Synthesizing	<i>E. P. Gorog</i>
3,478,356	Range Rate Radar	<i>D. Divine, III</i>
3,478,414	Water White Rosin Flux in Benzyl Alcohol Solution	<i>M. Potter and W. J. Strogis</i>
3,478,467	Fare Operated Gate Assembly	<i>G. H. May</i>
3,479,026	Acoustic Document Sensor	<i>W. B. Plummer, T. H. van den Honert and M. G. Wilson</i>
3,479,036	Nonelectronic Magnetic Recording System	<i>W. C. Carroll and H. T. Johnston, Jr.</i>
3,479,219	Method of Fabricating Magnetic Recording Media	<i>R. S. Haines and J. S. Vranka</i>
3,479,233	Method for Simultaneously Forming a Buried Layer and Surface Connection in Semiconductor Devices	<i>R. H. Lloyd</i>
3,479,460	Speech Analysis System	<i>G. L. Clapper</i>
3,479,493	Digital Controller with Automatic Balance and Manually Adjusted Operating Point	<i>J. O. Jacques, D. Montgomery and P. A. Kuckein</i>
3,479,523	Integrated Nor Logic Circuit	<i>P. Pleshko</i>
3,479,583	Line-Voltage Fluctuation-Insensitive Detector for Phase Failures on Three-Phase Transformers	<i>H. J. Hemprich, W. F. Schneider, H. W. Spiro and J. O. Zehr</i>
3,479,605	Display Formatting Control	<i>D. D. Tech</i>
3,479,642	Threshold System	<i>M. R. Bartz</i>
3,479,662	Feedthrough Elimination in Magnetic Transducers	<i>R. D. Bradford and R. E. Braun</i>
3,479,663	Magnetic Transducer	<i>J. R. Morrison and D. E. Speliotis</i>
3,479,987	Apparatus for Taking Fingerprints	<i>W. K. French</i>
3,480,385	Process for Growing Single Crystals	<i>M. W. Shafer</i>
3,480,441	Photosensitive Compositions	<i>R. Srinivasan</i>
3,480,491	Vapor Polishing Technique	<i>A. Reisman and H. R. Leonhardt</i>
3,480,522	Method of Making Magnetic Thin Film Device	<i>J. M. Brownlow</i>
3,480,795	Sample-and-Hold Circuit	<i>A. B. Benson, G. G. Gorbatenko, J. Jursik, R. E. Kath, J. D. Ovrebo and D. H. Skrenes</i>
3,480,817	Aperture Assembly for Electron Beam Device	<i>K. H. Loeffler</i>
3,480,827	Flyback in Double-yoke-drive Cathode Ray Tubes	<i>N. K. Arter and V. C. Martin</i>
3,480,830	Multi-layer PN Junction Semiconductive Flying Spot Generator	<i>J. W. Horton and R. J. Lynch</i>
3,480,836	Component Mounted in a Printed Circuit	<i>J. Aronstein</i>

3,480,841	Solderable Backside Ohmic Contact Metal System for Semiconductor Devices and Fabrication Process Therefor	<i>P. P. Castrucci, R. H. Collins and R. G. Shephard</i>
3,480,857	Digital Method and Apparatus for Measuring Small Inductances and Capacitances	<i>W. F. Bialko and B. A. Boettcher</i>
3,480,875	Laser Scanning Device Having Two Lens Systems with a Common Focal Plane.	<i>R. V. Pole</i>
3,480,879	Bulk Oscillator Using Strained Semiconductor	<i>M. I. Nathan and J. E. Smith, Jr.</i>
3,480,910	Pulse Value Determining Receiver	<i>J. G. Brenza and A. A. Kusnick</i>
3,480,914	Control Mechanism for a Multiprocessor Computing System	<i>H. P. Schlaeppli</i>
3,480,915	Data Transmission Apparatus	<i>J. L. Eisenbies</i>
3,480,919	Photographic Information Storage Optical Tracking and Switching System . . .	<i>R. A. Jensen and I. B. Oldham</i>
3,480,922	Magnetic Film Device	<i>B. L. Flur, P. D. Davidse and L. I. Maissel</i>
3,480,923	Memory Driving Circuit	<i>D. E. Norton</i>