

January through March, 1961

## Recent IBM Patents

## January, 1961

Automatic Tracking . . . . .	H. A. Panissidi . . . . .	2,966,890
Servosystem with Error Signal Producing Motor Speed Control . . . . .	J. J. Rock . . . . .	2,967,268
Print Transferring Machine . . . . .	H. Smith, Jr. . . . .	2,967,478
Record Punching Machine . . . . .	C. E. Connolly and L. A. Wilson . . . . .	2,967,658
Electro-Optical Data Processing System . . . . .	T. I. Ress . . . . .	2,967,664
Magnetic Core Adding Device . . . . .	T. Einsele and K. Ganzhorn . . . . .	2,967,665
Object Detecting and Indicating Device . . . . .	F. L. Pratt . . . . .	2,967,948
Waveform Measuring Apparatus . . . . .	G. N. Gaebelein . . . . .	2,967,999
Push-Pull Ring Circuit . . . . .	G. L. Clapper . . . . .	2,968,002
Reversible Electronic Counter . . . . .	D. H. Apgar . . . . .	2,968,003
Data Processing System Memory Controls . . . . .	J. A. McDonnell, J. M. Terlato and J. E. Greene . . . . .	2,968,027
Buffer Storage System . . . . .	E. L. Johnson, P. W. Rocco and D. C. Ross . . . . .	2,968,791
Compacted Word Storage System . . . . .	F. V. Adams . . . . .	2,968,792
Magnetic Transducer . . . . .	J. T. Smith . . . . .	2,968,799
Cylinder Adder . . . . .	F. A. Litz and J. J. Lynott . . . . .	2,969,042
Oil Film Spacer for Magnetic Recording Device . . . . .	J. J. Lynott . . . . .	2,969,435
Data Transmission and Storage System . . . . .	J. S. Crosby, Jr. . . . .	2,969,522
Method and Apparatus for Handling and Storing Binary Data . . . . .	G. L. Clapper . . . . .	2,969,526
Multispeed Indexing Device . . . . .	C. S. Jackowski and F. Saltz . . . . .	2,969,729
Data Translation and Printing . . . . .	L. W. Brehm . . . . .	2,969,730
Attachment for Print Head . . . . .	T. M. Holgate . . . . .	2,969,864
Information Searching Device . . . . .	H. P. Luhn . . . . .	2,969,876
Error Detecting and Correcting Circuits . . . . .	A. C. Reynolds, Jr. . . . .	2,969,912
Solution and Process for Etching Indium Dots . . . . .	P. L. Ostapkovich . . . . .	2,970,044
Electronic Relay Circuit . . . . .	F. W. Viehe . . . . .	2,970,291
Printed Circuit Ferrite Core Memory Assembly . . . . .	P. V. Horton . . . . .	2,970,296
Magnetic Branching Circuit . . . . .	J. A. Kauffmann . . . . .	2,970,297
Skew Elimination System . . . . .	V. R. Witt, P. I. Prentky and E. K. Dudek . . . . .	2,970,300

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Hydraulic Stepping Mechanism . . . . .	P. L. Pecchenino . . . . .	2,970,571
Card Handling Apparatus . . . . .	G. F. Daly and J. A. Weidenhammer . . . . .	2,970,751
Tape Punch . . . . .	J. E. Lisinski . . . . .	2,970,753
Checking Circuit . . . . .	W. J. Deerhake, B. L. Havens and K. E. Schreiner . . . . .	2,970,764
Cutting Apparatus . . . . .	R. N. Eichorn and H. A. Hendrich . . . . .	2,970,785
Elapsed Time Computer . . . . .	J. M. Cunningham . . . . .	2,970,878
Photoelectric Relay System Control . . . . .	F. L. Pratt . . . . .	2,971,096
Electronic Commutators . . . . .	L. R. Harper . . . . .	2,971,157
Apparatus Employing Solid State Components . . . . .	N. G. Vogl, Jr. . . . .	2,971,181
Workholder for a Lapping Machine . . . . .	A. N. Garthwaite and F. T. Kristiansen . . . . .	2,971,298
Positioning Device . . . . .	D. H. Cronquist . . . . .	2,971,396
Binary Adder Circuit . . . . .	R. A. Henle . . . . .	2,971,696
Signal Translating Apparatus . . . . .	W. H. Dunn . . . . .	2,972,137
Automatic Card Feed Control in Data Analyzing and Printing Machines . . . . .	R. L. Haug . . . . .	2,972,296
Transducer Positioning by Air Loading . . . . .	D. D. Sliter . . . . .	2,972,738
Automatic Position-Reporting System . . . . .	D. C. Ross . . . . .	2,972,742
Comparator . . . . .	F. Chadurjian . . . . .	2,973,508
Code Converter . . . . .	J. A. McLaughlin . . . . .	2,973,511

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Sheet Feeding Devices . . . . .	D. J. Oldenboom . . . . .	2,973,709
Digital Computing Engines . . . . .	E. J. Petherick and G. C. Rowley . . . . .	2,973,901
Semiconductor Connection Fabrication . . . . .	M. Genser . . . . .	2,974,072
Electronic Packaging . . . . .	A. N. Garthwaite . . . . .	2,974,258
D. C. Voltage or Current Regulator . . . . .	R. A. Christiansen . . . . .	2,974,270
File Maintenance Machine . . . . .	M. E. Femmer, J. J. Sochor, A. A. Kusnick, G. F. Nielsen and T. L. Vinson . . . . .	2,974,306
Magnetic Core Circuit . . . . .	L. A. Russell . . . . .	2,974,310
Magnetic Register . . . . .	J. A. Kauffmann . . . . .	2,974,311
Positioning Device . . . . .	P. A. Gilovich . . . . .	2,974,492
Fast Acting Fluid Actuator . . . . .	P. C. Gillham and S. K. Moss . . . . .	2,974,643
Accumulator and Counter Mechanism . . . . .	W. Scheerer . . . . .	2,974,861
Differential Counter . . . . .	R. N. Eichorn . . . . .	2,974,862
Error Detecting Device . . . . .	D. W. Kean . . . . .	2,974,864
Electronic Data Processing Machine . . . . .	J. A. Haddad, R. K. Richards, N. Rochester and H. D. Ross, Jr. . . . .	2,974,866
Card Transport . . . . .	L. A. Wilson and W. J. Wheeler . . . . .	2,974,951
Optical Frequency Generator for Magnetic Timing and Index Tracks . . . . .	H. E. Conkey, W. L. Batchelor and D. B. Thompson . . . . .	2,975,017
Transistor Structures and Methods of Manufacturing Same . . . . .	L. P. Hunter . . . . .	2,975,085
Data Transmission System . . . . .	C. R. Doty, R. J. Smith, L. A. Tate and V. H. Cackowski . . . . .	2,975,228
Electromagnetic Eraser . . . . .	C. D. Jackson, W. L. Batchelor and D. B. Thompson . . . . .	2,975,239
Differentiator and Mixer Circuit . . . . .	G. L. Clapper . . . . .	2,975,303
Solid State Devices . . . . .	P. J. Price and J. W. Horton . . . . .	2,975,304
Capacitive Prime Mover . . . . .	C. E. Schroeder and H. P. Byrnes . . . . .	2,975,307
Shift Register . . . . .	G. J. Saxenmeyer . . . . .	2,975,365
Clipping Level Control Circuit . . . . .	E. C. Greanias . . . . .	2,975,371
Two-Terminal Semiconductor High Frequency Oscillator Pluggable Unit . . . . .	P. J. Price and J. W. Horton . . . . .	2,975,377
Data Comparator . . . . .	R. R. Cardascia and R. D. Markle, Jr. . . . .	2,975,390
Static Data Storage Apparatus . . . . .	A. N. Miller . . . . .	2,975,402
Matrix Memory . . . . .	J. P. Hammer . . . . .	2,975,405
Erase Forward . . . . .	L. B. Stallard . . . . .	2,975,406
Digital Encoders and Decoders . . . . .	H. A. O'Brien . . . . .	2,975,407
Record Comparing Reader . . . . .	E. J. Petherick . . . . .	2,975,409
Photo-Sensing Mechanism and Circuit for Punched Data Cards . . . . .	F. M. Demer and R. G. Mork . . . . .	2,975,965
Wire Stringing Machine . . . . .	H. F. Martin . . . . .	2,975,967
Wire Cutting and Orienting Apparatus . . . . .	G. O. Philip . . . . .	2,976,894
Document Stacker . . . . .	R. E. Durham, Jr. . . . .	2,976,895
Information Storage in Glow Discharge Devices . . . . .	R. E. Edminster. . . . .	2,977,116
	J. T. Smith . . . . .	2,977,505