

Legacy Patents

Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	Contract data, memos, exhibits							135140	2987873	

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ERA 1375	Solid Stack Memory	1965	R. J. Bergman, et.al.	296, 265	3,435,435	3/25/1969	Patent for entire mated film memory. Many assembly diagrms. Numerous foreign patent applications (muntions act)	135374	2988097	
ERA 1375 Re	Solid Stack Memory	1965	R. J. Bergman, et.al.	296, 265	3,435,435	3/25/1969	Patent for entire mated film memory. Many assembly diagrms. Numerous foreign patent applications (muntions act)	135374	2988097	

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ERA 2084	System for Conversion between Coded Byte and Floating Point formats	1972	John A. Boles, et.al.	315, 150			Extra material only. Original checked out in 1987 by Lucvy Schnitz. Canada if necessary	135818	2988526	
ERA 2198	Binary Bypassable Arithmetic Linear Module	1973	James T. Ellison	333, 833	3,818,202	18-Jun-74		135818	2988526	
ERA 2202	Core String Apparatus	1974	Ronald A. Beck	431, 256	3,857,155	31-Dec-74	No Foreign Filings, Export Lic. No. 373330, date Jan 1974	135818	2988526	

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ERA 112	Civil Action 1829-68 Reading Machine Symbol Detector	1968	Curtis W. Fritz, Howard L. Daniels	14,321			Dismissed 6/17/70	149867	2988735	
ERA 1234	Deskewing System	1965	D.M. Collins	482,795	3,456,237	7/15/69	Deskewing in tape system	149867	2988735	
ERA 1450	Digital Signal Cross - correlator	1967	P.H. Conway	606,904	3,517,879	4/7/70	Reconstruct serially telemetered pulse	149867	2988735	
ERA 1453	Sampled - data automatic gain & DC level central	1965	P.H. Conway	606,721			No filing	149867	2988735	
ERA 1569	Memory Selection System	1967	R.C. Mathews	650,100	3,484,767	2/16/69	Nike-x NDRO Memory	149867	2988735	

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DERA 2162	Control Features for Audio Visual Presentation System	1972	George Sellin, Richard L. Asleson, et.al.				No patent application filed	152206	2989476	
DERA 2157	Terminal Members (wire wrapped posts)	1972	Paul E. Oberg				No patent application filed.	152206	2989476	
DERA 2160	Keapered Faraday Effect Phase Grafting X-Y Light Deflector. Also called Wide Angle Laser Beam Steering	1972	E. J. Torok, T. R. Johansen				Invention already patented. Waited too long. Must file patent application within one year after first publication.	152206	2989476	
DERA 2158	Current Sensor and Monitor	1972	James Eugene Holladay Jr.				No patent. Invention was previously disclosed.	152206	2989476	
DERA 1807	Automatic Interrupt Tabling	1968	E. P. Hadd				Invention barred because of incorporation in the Univac 418 III Processor.	152206	2989476	
DERA 1889	RHD Internal Rotor Packaging (RHD = Rotating Head Drum)	1969	George E. Melink				No patent filed. RHD program discontinued.	152206	2989476	
DERA 1894	1108 Monitor System	1969	D. M. Colins				Invention barred because of incorporation in the Univac 1108 System.	152206	2989476	
DERA 1938	Improved Monitor Device	1970	D. T. Bordsen, G. E. Carlson				Invention barred because of incorporation in the Univac 1108 System.	152206	2989476	
DERA 1949	Access Control System for Urban Schools and the Like	1970	G. E. Mellen				No patent application filed.	152206	2989476	
DERA 1972	Self-Sufficient Monitor	1970	D. T. Bordsen				No patent application filed.	152206	2989476	
DERA 1977	Opto-Electronic Keyboard (contactless militarized keyboard)	1970	S. J. Lins				Not unique. No patent application filed.	152206	2989476	
DERA 1999	Personnal Security Identification System (magnetic material on ID badge)	1970	S. J. Lins				Patent dropped. Idea already patented.	152206	2989476	
DERA 2016	8x4 Content Addressable Memory Chip	1970	A. W. Cheney, M. Danilenko				No patent application filed. Idea already patented.	152206	2989476	
DERA 2027	Mounting Technique for IC Packages	1971	R. L. Juhl, R. H. Moberg				No patent application filed since invention not to be incorporated in a Univac product.	152206	2989476	
2038	Cable Splice	1971	Elwin Crandall				Unpatentable. Covered by earlier patents.	152206	2989476	
2042	Pluggable Connector for Microelectronic Ceramic	1971	Kenneth M. Anderson				No patent application filed. No current or future use foreseen.	152206	2989476	
2047	Flexible conforming cold plate	1971	E. F. Finegan, G. D. Deering				Patent dropped. No plan to use	152206	2989476	
2048	Word Line in plated wire memories	1971	James T. Lehmann, Walt W. Nori				Patent dropped. No plan to use	152206	2989476	
2051	Interlocking Connectors	1971					Patent dropped. No plan to use	152206	2989476	
2058	Interface between Remote Device and Multiplexer Adapter	1971	Calvin M. Buck, Robert B. Nordberg				Invention patent barred because already incorporated in product sold to customer.	152206	2989476	
2063	Device for Soldering Pins in a Multilayer PC board	1971	W. H. Stark				Invention not to be used in any Univac product, hence no patent application filed.	152206	2989476	
2065	Double Density Plated Wire Memory	1971	L. A. Prohofsky, S. A. Meddaugh				Invention not to be used in any Univac product, hence no patent application filed.	152206	2989476	
2083	Random Priority - Selector/Encoder	1971					Patent barred because of incorporation in the Univac Buffered Terminal Multiplexer	152206	2989476	
2083	Byte instructions in Word Organized Computer System	1971	C. D. Card				Dropped because incorporated in DERA 2082 and 2084	152206	2989476	
2088	Unary Masking Array Concept (UMAC)	1971	R. H. Dean, J. A. Speldrich				Dropped because of no further company interest.	152206	2989476	
2096	Color Displays - Electron Gun with Character Generation and Converging Devices	1971	Robert C. Jones				Dropped due to no company intent to use.	152206	2989476	
2099	Methods for Fabricating Full Turn Word Line and Keeper Plated Wire Memory Apparatus	1971	P. E. Oberg				Dropped. No actual company use foreseen.	152206	2989476	

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2110	Control Data Exchanger	1971	William G. Heer				Invention "novelty" search showed invention still at paper level. No patent until product incorporation.	152206	2989476	
2111	Control Feature of Communication Network for Multi-speed Storage System	1971	W. G. Heer				Invention "novelty" search showed invention still at paper level. No patent until product incorporation.	152206	2989476	
2117	Two Member Masking Technique	1971	R. H. Doan, M. C. Paul				Dropped. Lack of interest by DPD (Data Products Division)	152206	2989476	
2118	Processes for Fabricating Ground Plane-Tunnel Walls for Plated Wire Memory Apparatus	1971	T. L. Krocheski, P. E. Oberg				Dropped. No company use foreseen.	152206	2989476	
2122	Magnetic Matrix A/D Converter Apparatus	1972	R. H. James				Dropped. Invention novelty insufficient.	152206	2989476	
2132	Lossy Power Line Filter	1971	R. J. Buchan				Patent barred due to previous disclosure	152206	2989476	
2136	Current Sensitive High Speed A/D Converter	1972	J. A. Inda, R. H. James				Dropped. Invention novelty insufficient.	152206	2989476	
2137	Core Memory Drive/Inhibit Current Margin Tester	1972	R. R. Mattie, J. J. Stoffel				Dropped. Patent would be too narrow, system would not be marketed, and detection of infringement next to impossible.	152206	2989476	
2137	Core Memory Drive/Inhibit Current Margin Tester	1972	R. R. Mattie, J. J. Stoffel				No patent. Device only for in-house use and not to go into a product line item.	152206	2989476	
2149	Fully Encoded Micro-commands	1972	John W. Esch				No patent. Already patented by other company.	152206	2989476	
2150	Two Level Nanomemory Structure	1972	John W. Esch				No patent because of previous disclosures.	152206	2989476	
2151	Multiple Source Command Bus	1972	John W. Esch				No patent because of previous disclosures.	152206	2989476	
2152	ECL Bus Driver/Receiver	1972	Philip R. Melcher				No patented because of 2157	152206	2989476	
2154	418-III Extended Addressing	1972	T. E. Weidenlcof, P. M. Finken, R. G. Buttenhoff				No patent. Does not contain sufficient novelty.	152206	2989476	
2155	High Efficiency Proportional Motor Drive	1972	F. B. Black, L. W. Urry				No patent. Description was too general.	152206	2989476	
2156	Programmable PCM Bit Synchronizer	1972	F. B. Black				No patent. Does not contain sufficient novelty.	152206	2989476	

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ERA 1936	Checked out							153618	2990503	
ERA 1970	Hysteresis Logic Amplifier	1970	R.C. Nybo	76,911			Abandoned Initiated in Salt Lake	153618	299053	
ERA 1971	Poured Keeper Plated wire Memory Plane Design	1970	F.L. Anderson				No patent application	153618	299053	
ERA 1976	RF Receiver with Phasalock Demodulation at Carrier Signal Frequency	1970	G.D. Hitler, et.al.	91,431			Abandoned it as foreign filing also.	153618	299053	
ERA 1979	Bearing Greasing System	1970	W.R. Johnson	89,723	3637,270	1/25/70	Applicable to rotating drum memories	153618	299053	
ERA 1988	Temperature controled clocking of Logic Circuits	1970	D.V. Mager	99, 879	3725,789	4/3/73	Foreign filings also.	153618	299053	
ERA 1995	Block organized random access memory	1971	A.D. Kaske, G.F. Sauter	149,970	3696,349	10/3/72	Otherwise known as a BORAM, applies to mated film memory.	153618	299053	
ERA 1998	Snap action switch	1971	E.E. Tetrick	157, 907	3697, 711	10/10/72	Applied to V100 keyboard	153618	299053	
ERA 2000	Method for vacuum depositing dielectric materials	1971	S.L. Lins, C.J. Nelson	124, 093	3699, 034	10/17/72		153618	299053	
ERA 2002	Cathode Ray tube mounting for Military Environment	1971	A.L. Arndt, et.al	144, 932			Abandoned	153618	299053	
ERA 2015	Multiplexed memory request interface	1972	L.F. Delaney, et.al.	242, 030	3735, 390	5/22/73	For 1110 project.	153618	299053	
ERA 2020	Keyswitch	1971	P.J. Novak	212, 015	3732, 380	5/18/73	Keyboard weitch with elastomeric suspension	153618	299053	
ERA 2044	Search Memory System	1971	R.M. Englund	209, 963	3742, 460	6/26/73		153618	299053	

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				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	PX10471-0-1 Diagnostic Manual for Voice Switching (EVS) AN//UYK-15 Computer (data for copyright registration)	Oct-73	Sperry Univac Defense Systems				Approx 6" sstack, procedures, listings	153919	2990597	
	Data for Copyright Registration - Technical Manual for Univac Combat System Digital Data Processor. Functional Demonstration Model, vol. 1, PX10082-1-2	Mar-74	Sperry Univac Defense Systems				3 copies. Each separately bound, each aprox. 1" thick	153919	2990597	
	PX10414-0-1, Technical Manual for Data Acquisition System Input/Output Interface Module used in Urban rail supporting Technology Program (data for copyright resitration)		Sperry Univac Defense Systems					153919	2990597	
	Data for Copyright Registration, PX10516-1-1, ARTS FS2 Input/Output Processor Diagnostic Manual, Vol. 1		Sperry Univac Defense Systems					153919	2990597	

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NC 28542	Output Amplifier	1960	Emanuel Block	11,115		N/A	RI-484, Patent Abandoned 11/5/70	154109	2990782	
NC 20470	NRZ Reading Amplifier	1958	Howard Shekels, G. Ward Lund, Robert S. Erickson	712,287		N/A	RI-177, Patent abandoned 2/17/59	154109	2990782	
AF 6563	Wire Tape Guide	1959	Richard E. Holt	806,197		N/A	RI-240, Patent abandoned 10/10/61	154109	2990782	
Army AMPC-871	Carry Circuits	1961-1964	R. P. Arndt, Wm. Weigler, Adelbert Chaney	399,939		N/A	ERA-316/RI-748, Abandoned 4/10/67	154109	2990782	
Army AMPC-874	Interrupt & Priority Operations	1964	Earl Joseph, Wm Weigler, James C. Nelson	376,281		N/A	RI-755/DERA-318, Abandoned 7/31/67	154109	2990782	
Army AMPC-875	Indexing and Address Modification	1964	Wm. Weigler	399,936		N/A	RI-760/DERA-323, Abandoned 7/27/67	154109	2990782	
Army AMPC-876	Shift Instruction	1964	R. B. Arndt, Wm. Weigler, Earl Joseph	399,938		N/A	RI-765/DERA-320, Abandoned 10/26/67	154109	2990782	
Navy NC 34,009	Digital Comparator Circuit	1964	R. L. Eliassen	353,008		N/A	RI-767, Abandoned 3/18/64	154109	2990782	
AF 6521	Radar Navigation	1958	Walter Anderson, S. R. Snodey, Wm. Welchman	719,902	3,035,259	5/15/1962	RI-230	154109	2990782	
AF 9223	Solid State Switch	1964	F. J. Belcount, Victor Hicks, D. M. Manikowski	404,541		N/A	DERA-1009, Abandoned 8/3/67	154109	2990782	
Army AMPC-1595	Memory Stock with Stripline Interconnections	1966	Larry D. Sly	527,388		N/A	DERA-1332, Abandoned 11/14/67	154109	2990782	
Army AMPC-1698	D. C. Restore Pulse Amplifier	1966	Roland C. Fleming, Frank W. Kline	859,317		N/A	DERA-1421, Abandoned 12/2/69	154109	2990782	
NC 45,688	On-Off Arrangement for Transformer Driven Switch	1968	John F. Bruder	?		N/A	DERA-1580, Abandoned 4/7/70	154109	2990782	
NC 46,864	3-Wire Coincident Core Memory	1969	R. W. Svobodny		3,573,962	1971	ERA-1586	154109	2990782	
NC 47,598	Saturable Loop Core Current Source	1970	John F. Bruder		3,649,904	1972	ERA-1704	154109	2990782	
NC RC-14345	Card Module and End Wall Treatment	1970	C. F. Wenz	46,297	3,631,325	1971	ERA-1921	154109	2990782	
ERA 1933	Noise Protection and Rollover Lockout for Keyboards	1970	Stanley J. Lins		3,660,826	1972	Export License No. 345131	154109	2990782	
ERA 1946	Keyboard Apparatus	1970	Allen Arndt, Albert Kaszynski	75,463	3,657,492	1972		154109	2990782	
ERA 1981	Method of Forming a Card Guide	1970	Wooddrow Edstrom, Charles Norling	90,992	3,673,669	1972		154109	2990782	

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ERA 166KA	Magnetic Storage Device	1965	A. V. Pohm, et.al.	445,005	350,9546	1970	3 folders	154134	2990807	
ERA 1912	Air Bearing Wheel Accelerator for Document Handling Apparatus	1970	D. S. Worden	46,927	3633,902	1970		154134	2990807	
ERA 1918	Method of Hydrostatically forming a Tunnel Structure for a Magnetic Plated Wire Memory Array	1970	G. E. Reed	209,86	3643,325	1970		154134	2990807	
ERA 1919	Method of Hydrostatically forming a Tunnel Structure for a Magnetic Plated Wire Memory Array	1970	G. D. Wilson	40,035	3631,592	1971		154134	2990807	
ERA 1847	Solder Alloy Composition	1969	R. E. North	829,791	3607,252	1969		154134	2990807	
ERA 1848	Method of Manufacture Multiple Extended Tab Printed Circuit Boards	1970	J. Y. Huie	340,398	3626,586	1970		154134	2990807	
ERA 1861	Card Profile Compensation for Removable Card Handling Cartridge	1969	L. E. Gerlach	828,860	3584,742	1971		154134	2990807	
ERA 1748	Nozzle and Control Apparatus	1969	G. P. Johnson, et.al.	791,239	3628,726	1971		154134	2990807	
ERA 1750	Clocking Arrangement for Arithmetic Hold Operation	1969	W. P. Lowell, et.al.	868,546	3623,017	1971		154134	2990807	
ERA 166CN	Magnetic Storage Device	1964	C. D. Olson, et.al.	353,623	3596,260	1971		154134	2990807	
ERA 1590	Hamming Distance and Magnitude Detector and Comparator	1970	R. H. Conway	191,76	3656,109	1972		154134	2990807	
ERA 816K	Memory Apparatus utilizing parallel pairs of transmission line conductors having negligible magnetic coupling there between.	1969	C.T. Constantinides, et.al.	648, 519	3484, 766	12/16/69		154744	2991202	
ERA 879	Transistor trigger circuit	1966	R.L. Bower, et.al.	559, 044	3505, 534	4/7/70	"Army case." Prevents output transistor overstress.	154744	2991202	
1004	Permutation Matrix	1963	R.M. Sanders	320, 202	3503, 053	3/24/70	Applies to magnetic thin film memory	154744	2991202	
ERA 1117	Detector system and device	1964	F.J. Belcourt, et.al.	384, 885	3427, 601	2/11/69		154744	2991202	
ERA 1311	Continuous data recording apparatus	1966	D.C. Stanga	571, 309	3439, 344	4/15/69		154744	2991202	
ERA 1407	High speed analog-to-digital converter	1966	P.H. Conway	595, 945	3500, 381	3/10/70		154744	2991202	
ERA 1552	Aerodynamically operated switch etc	1966	L.A. Vos	597, 001	3503, 056	5/21/70	Applicable to flying heads on rotating magnetic memory	154744	2991202	
ERA 1559	Shift enable algorithm implementation means	1969	D.M. Collins, et.al.	612, 663	3436, 737	4/1/69		154744	2991202	
ERA 1572	Synthetic monolithic ferrite array	1967	G.B. Strawbridge	645, 350	3506, 976	4/14/70	Layout and methods for core stringing. Also filed in several foreign countries.	154744	2991202	
ERA 1578	Magnetizable analog sampling detector	1967	K.T. Kulp	622, 779	3465, 314	9/2/69		154744	2991202	
ERA 1633	Plated-wire memory stack configuration	1967	J.F. Bruder	647, 017	3484, 765	12/16/69	Eliminated "dummy" wires	154744	2991202	
ERA 1638	Radiation hardened clock pulse distributor	1967	F.J. Belcourt, et.al	666, 872	3515, 995	6/2/70	"Munitions Act"	154744	2991202	

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	File "A Foreign Filing 1970-1981	1970-1981	Law Ded				Memos, correspondence regarding foreign filing process, approach	154931	2991377	
	File "Johnson, Ca."	1980-1981					Patent correspondence with Charles Johnson	154931	2991377	
	File "A Vanguard"	1977-1978					Various legal correspondence regarding disclosures on Project Vanguard	154931	2991377	
	File "A Swiss Gunsight 1975-1977"	1975-1978					Correspondence regarding licensing of "Skywind" gunsight	154931	2991377	
	File "A Swiss Gunsight 1978	1978					Correspondence regarding licensing of "Skywind" gunsight. Assigned to Sperry by Martin Bauman, D. Switzerlar	154931	2991377	
	File "A Patent Liaison Dorval 1978						Various memos, documents supporting activities by Canadian inventors	154931	2991377	
	File "A. Clever, W. E.						W. E. Clever status reports	154931	2991377	

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DEM 1621	Improved Inhibit - Write Operation and Dual Memory Scheme	1966	J. S. Zajackowski, J. V. Murphy				Invention Disclosure	155125	2991561	
DEM 1622	Document Separating and Feeding Device	1966	Vince G. Dempsey				Invention Disclosure	155125	2991561	
DEM 1623	Synchronizing Device for a High Speed Sheet Stacking System	1966	Vince G. Dempsey				Invention Disclosure	155125	2991561	
DEM 1624	A Guard Technique for Electroplating	1966	Robert Spies				Invention Disclosure	155125	2991561	
DEM 1625	System Mounting of Electronic Circuit Chips by Contour Etching of Pedestals	1966	Gilbert R. Reid				Invention Disclosure	155125	2991561	
DEM 1626	Inexpensive Facedown Bonded Transistor Diode or Integrated Circuit Package	1966	Gilbert R. Reid				Invention Disclosure	155125	2991561	
DEM 1627	Alternated Work Field Configuration for Magnetic Plated Wire Memory	1966	J. H. Cooper, F. J. Hanson				Invention Disclosure	155125	2991561	
DEM 1628	Methods for Measuring Magnetostriction	1966	Robert Spies				Invention Disclosure	155125	2991561	
DEM 1629	Replaceable Medium Non-Mechanical Magnetic Sheet Read Only Memory with Permanently Encoded Information	1966	E. B. Barco				Invention Disclosure	155125	2991561	
DEM 1630	Synchronous Mechanical to Pneumatic Transducer Sequential Pulse Generation	1966	Richard S. Gluskin				Invention Disclosure	155125	2991561	
DEM 1631	Associative Switch	1966	Melvin E. Conway				Invention Disclosure	155125	2991561	
DEM 1632	Fluid Draw Cell	1966	E. E. Garrett, R. P. Bulyk				Invention Disclosure	155125	2991561	
DEM 1633	Tuned CAM Memory	1966	W. J. Bartik				Invention Disclosure	155125	2991561	
DEM 1634	The Biased Operation of Low Power Thin Film	1966	W. Luciw				Invention Disclosure	155125	2991561	
DEM 1637	Connector Soldering Device	1966	Francis T. Toner, Charles Herder				Invention Disclosure	155125	2991561	
DEM 1635	Magnetic Pulse Switch and Magnetic Encoding Keyboards	1966	J. Presper Eckert, Jr.				Invention Disclosure	155125	2991561	
DEM 1636	Improvement to Magnetic Pulse Switch and Magnetic Encoding Keyboard	1966	Walter S. Thomas				Invention Disclosure	155125	2991561	
DEM 1638	Planar Structure for Implementing Bit Steering	1967	E. McBride, F. A. Messner, L. M. Spanderfer				Invention Disclosure	155125	2991561	
DEM 1639	Stacked Double-Sided Laminates for Backboard Wiring Applications	1967	L. Schwartz, R. Fradette				Invention Disclosure	155125	2991561	
DEM 1640	Search Memory Technique	1967	C. F. Chong				Invention Disclosure	155125	2991561	
DEM 1641	Match and Resolve Technique for Plated Wire CAM	1967	W. J. Bartik				Invention Disclosure	155125	2991561	
DEM 1642	Linear Motion Detection System	1967						155125	2991561	
DEM 1643 thru 1680		1967	Various	Book 6			Various invention disclosures	155125	2991561	
DEM 1681 thru 1730		1967	Various	Book 7 in box noted to right				155125	2991561	

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DEM 1731 thru 1790		1967 & 1968	Various	Book 8 in box noted to right				155125	2991561	
DEN 1791 thru 1830		1968	Various	Book 9 in box noted to right				155125	2991561	
DEM 1831 thru 1889		1968 to 1969	Various	Book 10 in box noted to right				155125	2991561	

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1381A	Ternary Comparator	1967	W. H. Hanson	636,479	3,508,199			155351	2991782	
1466	Digital Vector Generator	1966	M. L. Granberg, et.al.	569,481	3,510,634	05/05/70	Display of text on a CRT	155351	2991782	
1518	Electromagnetic Radiation Deflection System	1966	G. E. Marks	574,372			Abandoned	155351	2991782	
1546	Decimal Add/Subtract Circuitry	1967	D. M. Collins	612,479	3,508,037	04/21/70	Gary Iverson co-inventor. Used in 494 CPEL	155351	2991782	
1642A	Method of providing magnetic field Anisotropy in a deposited magnetizable element by locally associated magnetizable material	1968	P. E. Oberg	781,294			Abandoned	155351	2991782	
1650	Blinking cursor for CRT Display	1967	C. A. Kiesling	663,049	3,531,795	04/03/70		155351	2991782	
1657	CRT Display Editing Circuit	1967	C. W. Ehrman	693,670	3,540,012	11/10/70		155351	2991782	
1663	Rotating Head Memory System utilizing non-contacting flexible record member	1968	G. J. Ehalt	695,500	3,560,946	01/13/71		155351	2991782	
1701	Oligatomic Magnetic Film Memory	1969	D. S. Lo	803,547	3,550,101	12/22/70	Five foreign country patent applications too	155351	2991782	
1724	Electro-Fluidic Interface Device	1969	R. L. Blosser, Jr.	791,388	3,552,437	01/05/71		155351	2991782	
2646	Multi-Crystal, Large field of view light deflector configuration	1980	G. L. Nelson, F. G. Hewitt				Intellectual rights owned by A. F. - no patent app.	155351	2991782	
2649	Method of minimizing latency in interlaced serial memories	1980	G. H. Kemmetmueller, R. M. Englund				Dropped because not planned for products	155351	2991782	
2676	Bubble Omnibus	1978	E. J. Torok				Dropped because of other prior patents	155351	2991782	
2678	Data Base Processor	1978	J. R. Jorodan				Dropped because of public domain articles	155351	2991782	
2679	Parallel Binary Search and Insertion Device	1978	J. R. Jordan				Dropped, insufficient information	155351	2991782	
2680	Data Base Processor Content Addressable Memory (DBP CAM)	1978	J. R. Jordan				Dropped, insufficient information	155351	2991782	
2691	Digital Stripe Domain Light Deflector	1978	E. J. Torok, et.al.				Dropped, not reduced to practice	155351	2991782	
2692	Bubble Lattice Propagation	1978	M. Kamin et.al.				Dropped, not reduced to practice	155351	2991782	
2700	Clear State Built In Test	1978	L. A. Benson, R. A. Erdrich				Dropped, Tech Committee Option	155351	2991782	
2701	Error Corrected Rewrite during Dynamic Memory Refresh Cycle	1978	G. H. Kemmetmueller				Dropped, not reduced to practice	155351	2991782	
2703	Cache-Disk Subsystem File Sharing	1977	R. E. Swenson				Dropped, not reduced to practice	155351	2991782	
2709	Modular LSI/ULSI Bus Architecture	1976	B. K. Thoen				Dropped, not reduced to practice	155351	2991782	
2711	MNOS BAROM Addressing Scheme	1978	M. A. Horne, D. L. Amundson				Dropped	155351	2991782	
2717	Dynamic Logic Display System	1979	G. L. Engel, A. M. Stolee				Dropped, prior patent	155351	2991782	
2732	FET Synchronous Rectifier/Filter Bipolar Drive	1979	R. Shelly				Dropped, not put into practice	155351	2991782	
2733	FET Synchronous Rectifier/Filter Bipolar Drive	1979	R. Shelly				Dropped, not put into practice	155351	2991782	
2736	Arbitration Algorithm for use with Overlapped Serial Data Bus Polling Technique	1979	S. C. Anderson, et.al.				SHINPADS - not submitted	155351	2991782	
2737	Reconfiguration Method for use with a Serial Data Bus	1979	S. C. Anderson, et.al.				SHINPADS - not submitted	155351	2991782	
2739	Overlapped Polling Technique for Serial Data Bus Control with Arbitration Performed during System Transmission Delays	1979	S. O. Newcomer, et.al.				SHINPADS - not submitted	155351	2991782	
2740	Technique for Monitoring Redundant Cables in a Multiple Redundant Cable Serial Data Bus System	1979	S. O. Newcomer, et.al.				SHINPADS - not submitted	155351	2991782	
2765	Laser Beam Piping	1979	J. F. Daryee, et.al.				Dropped, natural phenomenon	155351	2991782	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
2776	3 Level Mass Storage Hierarchy	1979	R. E. Swenson				Dropped	155351	2991782	
2778	Cache Disk Destage Hold	1979	Jan Brudin				Dropped, idea not tested	155351	2991782	
2779	Laser Adhesive Cutting	1979	B. M. Brown, et.al.				Dropped	155351	2991782	
2780	Electrolysis Cooper Plating Racks	1979	E. Rengel, D. Peterson				Dropped	155351	2991782	
2783	Magneto-optic Light Deflector Beam Recombination Device using Planar Surface Reflections	1979	E. J. Torok				Dropped, prior publications	155351	2991782	
2788	A method of using dry film photopolymers for resist in glass etching	1979	O. Jacobus, et.al.				Dropped, prior disclosure	155351	2991782	
2796	Oscilloscope Probe Adapter	1980	W. J. Thour				Dropped, insufficient economic potential	155351	2991782	
2799	AN/UYK-7 End-Around Data Transposition Cable	1980	A. E. Schmidt				Dropped, insufficient economic potential	155351	2991782	
2809	Tube for Peristaltic Pump-Motor	1980	P. E. Oberg				Tagged for release to inventor	155351	2991782	

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				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
1432	Delta Clock and Interrupt Logic	1969	M. J. Deblauw	818,373	3566,368	1971				
970	Automated Manufacturing System	1963	J. L. Neese, et.al.	422,682	3567,914	1971		155368	2991799	
1228A	A Character Generation Circuit for a Display System	1968	M. L. Grandberg	718,387			Abandoned	155368	2991799	
1228B	An Editing Circuit for a Display System	1968	M. L. Grandberg	718,480			Abandoned	155368	2991799	
1537	Thin Ferromagnetic Film Mem. Element using RF	1967	V. A. Ehresman	619,832	3559,191	1971		155368	2991799	
1558	SIGN antibipating circuit performing Binary multiplication by suffessive add employing ones complement notation	1966	G. J. Iverson, et.al.	601,754	3519,809	1970		155368	2991799	
1598	Stress Sensitivity Reduction of Magnetostrictive Film	1967	M. R. Rott, et.al.	656,912	3573,127	1971		155368	2991799	
1706	Block Parity Generating and Checking Scheme for Multicomputer System	1968	R. C. Jablonski	733,544	3525,077	1970		155368	2991799	
1751	Magnetic Recording Head	1968	P. E. Oberg, et.al.	755,645			Abandoned	155368	2991799	
1658A	BAKORE Memory Simultaneously Storing in DRO and NDRO Modes	1969	R. J. Bergman	871,243			Abandoned	155368	2991799	
1792	High Density Magnetic Recording Scheme	1968	P. E. Oberg, et.al.	755,186	3564,558	1971		155368	2991799	
1796	Thin Ferromagnetic Film Magneto Resistance Magnetometer	1968	M. C. Paul, et.al.	769,489	3546,579	1970		155368	2991799	
1826	Remote Switch Status Sensor	1969	S. H. Frase	331,392	3546,476	1970		155368	2991799	
1836	Momentum-Transfer Card BRAKE	1969	L. E. Gerlach, et.al.	828,861	3557,948	1970		155368	2991799	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 2116	FM/CW Intrusion Radar with Range Gating	1972	Owen L. Foote	288, 177	3,932,871	1976	DERA - 2116. Determines Range-Doppler, Object Size	156039	2992456	
ERA 2128	Storage Interface Unit	1974	Vernon K. Anderson, Michael W. Goddard	522, 553	3,967,247	1976	Germany	156039	2992456	
ERA 2127	Common Storage Buffer for Multiprocessor and I/O units		Vernon K. Anderson, J. G. Ellsworth					156039	2992456	
ERA 2133	Right Angle Electrical Connector Assembly	1974	W. H. Stark	535, 074	3,963,301	1976		156039	2992456	
ERA 2295	Transmission Line Driver Circuit		M. L. Granberg, et.al. R. L. Rajald	532, 336	3,969,639	1976		156039	2992456	
ERA 2331	Quick Reference Hub	1974	R. A. Brown W. W. Snow	581, 013	3,970,262	1976	For securing a reel of tape to a tape drive	156039	2992456	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 2224	A circuit for implementing rounding in add/subtract logic networks	1974	B. M. Anderson	392,721	3,842,250	1974		156568	2992971	
ERA 2082	Character addressing in a word oriented computer system	1974	C. D. Card, et.al.	365,373	3,828,316	1974		156568	2992971	
ERA 2124	Partitioning circuit employing external interrupt signal	1974	F. C. Nickel, et.al.	304,172	3,832,695	1974		156568	2992971	
ERA 2139	Digital Asynchronous FSK modulator	1974	C. D. Lardon	282,521			U.S. foreign, unpatentable	156568	2992971	
ERA 2153	Flexible carrier and interconnect for uncased IC chips	1974	J. R. Crams, et.al.	351,224	3,838,984	1974		156568	2992971	
ERA 2170	Singular for document handling system	1974	A. B. Buckner, et.al.	378,120			To be abandoned	156568	2992971	
ERA 2175	Volatile memory ptoection	1974	L. A. Prohofsky	309,015	3,810,116	1972	Foreign	156568	2992971	
ERA 2185	Singulator for document handling system	1974	A. C. Buckner, et.al.	378,302			To be abandoned	156568	2992971	
ERA 2188	Method of forming a tunnel structure for a magnetic plate-wire memory array	1974	L. A. Prohofsky	327,258	3,813,768			156568	2992971	
ERA 2213	Pulse amplitude modulated signal generator	1974	W. W. Davis	388,869	3,846,705	1974		156568	2992971	
ERA 2230	Clamp, ribbon cable	1974	J. H. Little	390,983			To be abandoned. Foreign, drawings	156568	2992971	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	Pattern Formation Process		R. W. Olmen				Foreign Applications	156660	2993062	
	N State Control Circuit	1969	G. E. Turcott		3473,262	10/21/69	For a plurality of logic stages	156660	2993062	
	Method for Manufacturing Extended Tab Core Memory Frames		C. T. Crawford		3382,572	05/14/68	Photo resist. Supplemental Data included.	156660	2993062	
	Extended Tab Core Memory Frames		C. T. Crawford				Application info	156660	2993062	
	Photochromic Compounds for Memory Systems	1969	D. L. Hart		3678,097	11/11/69	Light Controlled Memory	156660	2993062	
	Push-Pull Electron Beam Positioning System		T. L. Echaner				App	156660	2993062	
	Push-Pull Electron Beam Positioning System	1969	T. L. Echaner		3,421,046	01/07/69	Increments yoke current	156660	2993062	
	Common mode choke 2 dimensional memory array	1969	G. R. Lane		3,470,549	09/30/69	Driver and S?? Lines on a Thin Film Memory and Foreign App.	156660	2993062	
	Method of fabricating a multi-layered mated-Film Element in an Evacuatable Enclosure		J. M. Gorres				Abandoned, P? art found	156660	2993062	
	Controlled Impedance Bus Bar		A. J. Rocklitz		3,466,382	09/09/69	For automatic wire wrap on back panel	156660	2993062	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	Data for copyright registration PX10636-2-1 Preliminary Technical Manual for Enroute ARTS Interface Buffer Adapter (IBA), Vol 2	1974					3 copies	156934	2993334	
	Data for copyright registration PX10898-2-1 Technical Manual for TRMS Multiperipheral Controller	1974					3 copies	156934	2993334	
	Data for Copyright Registration, PX19681-0-1 Diagnostic manual for ARTS III Data Entry & Display Subsystem (DEDS)	1974					3 copies	156934	2993334	
	Data for Copyright Registration, PX10632-1-1 Technical Manual for ARTS Data Processing Input/Ouptput Processor Modification A (IOP-A)	1974					3 copies	156934	2993334	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
2235	Fail-safe priority system	1974	J.H. Scheuneman	477, 942	3, 848, 618	8/5/75	Used in a Univac designed memory which was provided by Intel-type 703387015	157132	2993519	
2237	Common storage controller for dual processor system	1973	M.H. Alferness, J.A. Miller	416, 699	3, 889, 237	6/10/75	Designed to allow a 494 user to add another computer to his system and allow both computer to communicate with common peripherals	157132	2993519	
2238	Core patch stringing apparatus	1973	R.A. Beck, D.L. Breu	401, 469	3, 849, 861	11/26/74	Facilitates the manufacture of magnetic core memory arrays	157132	2993519	
2238a	Core patch stringing method	1975	R.A. Beck, D.L. Breu	484, 648	3, 872, 581	3/25/75	Defines method of stringing cores using 2238, used on 7013 & 7005 series commercial memories	157132	2993519	
2250	Rack mounted electronic module slide assembly	1974	C.A. Hayden	464, 408			Abandoned	157132	2993519	
2256	Checking circuit for 1-out-of-n decoder	1974	B.A. Christensen	457, 669	3, 886, 520	5/27/75	Improved computer reliability by providing an error check circuit for a decoder network	157132	2993519	
2257	Longitudinal parity generator for mainframe memories	1974	H.W. Moore, III	465, 014	3, 887, 901	6/6/75	Designed for any memory that can function in a read before write mode	157132	2993519	
2328	Error logging in LSI MSU using FIFO memory	1974	J.H. Scheuneman	533, 565	3, 917, 933	11/4/75	Was incorporated in T7043 MSU, a memory that was never developed as a product	157132	2993519	
2306	Syndrome logic checker	1974	B.A. Christensen	503, 011	3, 891, 969	6/24/75	A checking circuit for the decoder of an error correcting code	157132	2993519	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	Function Generator utilizing Dual Threshold Logic		M. Cohn		3,441,859	Apr-69		157146	2993533	
	Transient Recording System utilizing Different Frequencies	1966	R. H. James, et.al.			Mar-69		157146	2993533	
	Tranmission Line Termination	1966	D. F. Grimm	ERA 1516			Abandoned	157146	2993533	
	Connector Design	1966	C. J. Butte, et.al.	ERA 1526	3,408,612	Oct-68		157146	2993533	
	Three Dimensional Oscilloscope Display	1967	P. E. Oberg	ERA 1591			Abandoned, originals from canada	157146	2993533	
	Memory Apparatus and Method	1965	Mulholland	ERA 1264			Abandoned 1968. Paper "The Mated Film Memory Element and its Applications" Kolling & Laborae, removed	157146	2993533	
	Multiprocessor Interrupt Directory	1966	R. A. Quosic, et.al.	ERA 1268	3,421,150	Jan-69		157146	2993533	
	Input-Output Circuit		P. R. Tierney, L. Prohofsky	ERA 1269	3,440,440	Oct-68		157146	2993533	
	Gated Magnetic Recording Amplifier	1966	W. R. Johnson		3,438,055	Apr-69		157146	2993533	
	Non-Destructive Read Memory Selection System	1965	J. H. Scheuneman	ERA 1330	3,423,739	Jan-69	#NAME?	157146	2993533	
	Magnetostrictive Magnetostriction Monitoring	1965	P. E. Oberg, et.al.			Dec-68		157146	2993533	
	Signal Responsive Unit	1965	S. J. Lins	ERA 1361	3,445,833	May-69	#NAME?	157146	2993533	
	Full Adder Unit utilizing Dual Threshold Logic	1965	M. Cohn	ERA 1447	3,423,577	Jan-69		157146	2993533	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 1924	Microfiche Storage and Display Unit	1970	R. L. Blosser, et.al.	343,990			Has foreign applications	157659	2994035	
ERA 1924K	Microfiche Storage and Display Unit	1972	R. L. Blosser, et.al.	272,233	3834,799	09/10/74		157659	2994035	
ERA 2113	Printed Circuit Card Guide	1972	J. S. Warwick	356,677	3760,233	09/18/73		157659	2994035	
ERA 1986	Processor State and Storage Limits Register Auto-Switch	1972	G. D. Boss	304,696	3,815,101	06/04/74	Export License No. 363056, Nov. 1972	157659	2994035	
ERA 2069	Parity Error Recovery	1972	A. E. Lahti	359,959	3,806,716	04/23/75	Canada filed 7/73	157659	2994035	
ERA 2069	Parity Error Recovery	1973	Archie Lahti, George Nelson					157659	2994035	
ERA 2085	Fiber Optics Light Pen		B. F. Anderson	254,205	3777,153	1973		157659	2994035	
ERA 2079	Pneumatic Transport Track	1971	E. Groeber	212,070	3747,922			157659	2994035	
	Digital Encoder Apparatus		G. T. Osborne		3,573,807	04/06/71	Keyboard Encoding	157659	2994035	
	Incorp. Of Salicy Lidene Anal. In Polymeric Matrices		Una L. Hart				Abandoned	157659	2994035	
	Incorp. Of Salicy Lidene Anal. In Polymeric Matrices		M. M. Schiffman				Abandoned	157659	2994035	
	Method of Preparing Dichlorosalidene etc.		M. M. Schiffman				Abandoned	157659	2994035	
	Method of Preparing 3.5 etc.		M. M. Schiffman	1974	3,831,266	08/27/74	Info Storage Device using Photocromic materials	157659	2994035	
	Microfiche Storage		R. L. Blosser				Abandoned	157659	2994035	
	Microfiche Storage and Display	1974	R. L. Blosser		3,834,799	10/10/74	Choose from a matrix of frames. Foreign Patents too.	157659	2994035	
	Processor State and Storage Limits Register Auto-Switch	1974	G. D. Boss		3,815,101	06/04/74	Deals with addresses outside limits. Canadian Patent	157659	2994035	
	Parity Error Recovery	1974	A. E. Lahti		3,806,716	04/23/74	Compare 2 registers	157659	2994035	
	Pneumatic Transport Track		E. Graeber		3,747,922	07/24/73	For sorting letter mail	157659	2994035	
	Fiber Optics Light Pen	1973	B. F. Anderson		3,777,153	12/04/73	To interface with a cathode ray tube	157659	2994035	
	Printed Circuit Card Guide	1973	J. S. Worwick		3,760,233	09/18/73	For P. C. Card mounting	157659	2994035	
	Digital Encoder Apparatus	1969	G. T. Osborne	ERA 1871	3,573,807	Apr-71	Originals	157659	2994035	
	Incorporation of salicylidene Avils in Polymene Matrices	1969	U. L. Hart, et.al.	ERA 1877			Abandoned	157659	2994035	
	Incorporation of salicylidene Avils in Polymene Matrices	1971		ERA 1877K			Abandoned 1973	157659	2994035	
	Method for preparing Dichlorosalicycledene 24,6 trichleo analone	1969	M. M. Schiffmann	ERA 1878			Abandoned	157659	2994035	
	Method for preparing Dichlorosalicycledene 24,6 trichleo analone	1971		ERA 1878K			Abandoned 1972 and extra material	157659	2994035	

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				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	PROM Memory Oscillator Counter	1974	H. W. Moore	ERA 2281	3,935,565	Jan-76	3 files, U.S. Foreign + originals	159933	2996122	
	Character Generator for a Dot Matrix Display	1974	Bruce M. Anderson	ERA 2284	3,921,164	Nov-75	U.S. foreign + originals	159933	2996122	
	Memory Security System	1974	G. A. Raymond, et.al.	ERA 2289	3,920,976	Nov-75	+ Foreign and originals	159933	2996122	
	Three Rank Priority System		J. H., Schelinenman	ERA 2294	3,921,150	Nov-75	+ originals	159933	2996122	
	Link Pin Method for Repairing Backpanel Wiring	1975	D. F. Grimm, et.al.	ERA 2380			Abandoned, 1976	159933	2996122	
	PA - Process for Providing a Hard Coating to magnetic Transducing Heads and Resulting Product	1970	T. R. Appleton, R. H. Dean, E. J. Hillman, C. J. Nelson	ERA 1950			Abandoned, 1972	159933	2996122	
	Process for Providing a Hard Coating to Magnetic Transducing Heads and Resulting Product	1972	T. R. Appleton, et.al.	ERA 195A	3,928,672	Dec-75	Original application apparantly rejected, appealed, separate file of originals	159933	2886122	
	General Purpose Edit Unit	1974	Ralph Sipples	ERA 2140	3,911,405	Oct-75		159933	2996122	
	General Purpose Edit Unit		Ralph Sipples	ERA 2140 Foreign			No recorded action	159933	2996122	
	Transient Turn On Protection for Power Supplies	Sep-73	F. A. Mihelich	ERA 2216	3,959,714	May-76	4 folders, 1 U.S. Filing, 1 Foreign, 2 originals	159933	2996122	
	Loss of Power Indicators	1973	H. W. Moore Iii	ERA 2220	3,920,996	Nov-75	3 folders - filing, originals, extra	159933	2996122	
	Propagation Circuit for Cross-Tie Wall Memory		D. S. Lo et.al.		3,906,466	Sep-75	Domestic, Foreign + originals	159933	2996122	

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				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 1884	Wide-Record, Narrow-Read Laminated	1974	M. J. Grundtner et.al.	882, 252	3,662,122	5/27/1905	Company sponsored	159996	2996185	
ERA 1900K	Magnetic Film Stripe - Domain Diffraction-Grating	1973	E. J. Torok, et.al.	177, 081	3,752,563	1973		159996	2996185	
ERA 2066	Quad Density Solid Stack Memory	1974	A. D. Kaske M. C. Paul C. H. Telman	273, 663	3,798,623	1974	Foreign	159996	2996185	
1844 1844K	Microfiche Storage and Display Unit	1972	G. B. Woehler				Abandoned, Foreign	159996	2996185	
ERA 2054	Nth Power Galois Linear Gate	1974	J. T. Ellison	237, 817	3,805,037	1974		159996	2996185	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 1708	Synchronous timing scheme for data processing system	1968	Howard L. Meier	783, 261	3, 576, 570	71	Addition of timing assay between line terminal and modem	160151	2996335	
ERA 1717	Shaped magnetic drive field for memory operations	1969	Paul E. Oberg, Maynard C. Paul	804, 506	3, 566, 659	11/11/70	For thin ferrite magnetic films	160151	2996335	
ERA 1736	Bi-emitter transistor search memory array	1968	Robert M. Englund	782, 842	3, 553, 659	8/21/70	True and complements stored in matrix	160151	2996335	
ERA 1749	Logical multiply scheme for binary computer	1969	G.J. Erickson	806, 197	3, 373, 447	1/5/71		160151	2996335	
ERA 1765	Photomultiplier tube AGC using photoemitter sensor for dymode biasing	1967	E.T. Hanson	676, 275	3, 614, 646	7/23/71		160151	2996335	
ERA 1790	Retaining pin and actuation apparatus	1969	D.A. Tandeski	828, 821	3, 576, 256	1/15/71		160151	2996335	
ERA 1809	Serial digital transmission system	1969	D.F. Grimm	868, 688	3, 609, 662	6/15/71		160151	2996335	
ERA 1895	Method of reducing cross-talk noise in plated wire memory stack	1970	J.W. Beloy, Gordon R. Lane	000, 333	3, 611, 325	10/5/71	Incorporated in Univac 9600	160151	2996335	
ERA 1927	Snap action switch	1970	F.T. Carpenter, et.al.	000, 6818	3, 603, 756	5/24/71	Used in Uniscope 100	160151	2996335	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
2052	Fourth Power Galois Multiplication Gate	1972	J. T. Elison	217,769	N/A	N/A	Abandoned, Employs Galois theory to design a novel MSI chip.	160428	2996593	
2056	Method of forming a tunnel structure for a magnetic plate-wire memory array	1972	R. L. Ebright	254,293	N/A	N/A	Abandoned. Minimize coupled noise related to active wire and balance (interstitial) wire.	160428	2996593	
2059	Linear Interpolation Algorithm	1971	J. D. Hajjcek, et.al.	199,953	3,748,447	07/24/73	Linear interpretation and numerical integration system which computes addition sets of x, y points from know sets of x,y.	160428	2996593	
2062	External Interrupt, Data chaining in the externally specified index mode of operation	1972	K. L. Miller	299,973			Abandoned. For 1110 processor.	160428	2996593	
2067	Method of Thin Coating a Memory Stack	1971	H. J. Fasching	210,880	3775,215	11/27/73	Avoids magnetostrictive effects.	160428	2996593	
2098	Half-turn Word Line Return for Plated-Wire Memory Array	1972	C. D. Crosby	240,915	3742,469	06/26/73	Potential use for Minuteman. Applied for in France and Italy also.	160428	2996593	
2108	Rack Mounted Electronic Module Support Mechanism	1972	R. A. Brown	239,083	3759,475	09/18/73	Scissor support in back of module instead of bottom or sides.	160428	2996593	
2112	Centralized Memory Access Module for a Data Processing System	1973	D. E. Hair, J. A. Bonnes	332,526			Used by ARTS III, No patent. Defense Pub. T917,007. Filed in Japan also.	160428	2996593	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 2033	Relative I/O Addressing	1972	A. E. Lahti, et.al.	297,538			Abandoned-rejected due to inadequate disclosure	160502	2996664	
ERA 2032	Content Addressable Memory for Resolving Control Memory conflicts	1972	C. P. Huppert, et.al.	278,147			Abandoned-rejected due to inadequate disclosure	160502	2996664	
ERA 1984	Extended Addressing System by Program Controlled Changing of base Address Values	1972	G. D. Boss, et.al.	283,596			Abandoned. Includes a German application.	160502	2996664	
ERA 2030	Sense/Digit Line Selection Matrix	1971	V. M. Benrud, et.al.	208,147	3742,467	06/26/73	Application to Europe was abandoned.	160502	2996664	
ERA 1957	Method of Forming Kepered Word Line Plated Wire Array	1970	R. A. Beck	075,389	3765,081	10/16/73	Defines manufacture of tunnel assembly as used in Minuteman Plated Wire Memory	160502	2996664	
ERA 2010	Page Composer for Holographic Memory, Faraday Effect	1971	D. S. Lo, et.al.	212,275	3761,155	09/25/73		160502	2996664	
ERA 1739	High Resistance Nozzle and Document Separator	1969	L. A. Vos	791,263	3773,173	11/20/73		160502	2996664	
ERA 1509	Memory Packaging Design and Fabrication Techniques, Magnetic Thin Film	1971	L. D. Sly	173,511	3786,444	02/12/74	"Army Case"	160502	2996664	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 1691	Universal Interconnect Package Assembly	1968	S. J. Lins, R. D. Morrison	733,116			Abandoned 1969	161181	2997337	
ERA 1776	Fluidic Loose ??? And Granular Material Sensing Apparatus	1969	Wayne Rusfor	673,946	3,459,035			161181	2997337	
ERA 1548	Continuous Bus Bar for Connector Plate rails Panel Machine	1967	Don Shore, James War???	664,489	3,470,421	1969	Application	161181	2997337	
ERA 1545	A Non-synchronous Design for Digital Device Control	1967	Mel DeBlauw	623,338	3,460,098	1969	Specification	161181	2997337	
ERA 1510	Method of Determining the Intensity of a Nuclear Radation Burst	1966	G. L. Grundy		3,479,509	1967		161181	2997337	
ERA 1490	Improved Writing Feature for Character Display (see patent description under other)	1966	Lee Granberg, Jerome Stoffel	569,181	3,434,135	1969	4 specification copies, international, Italy patent 810, 876. Constant velocity beam deflection control responsive to digital signals defining length and end points of vectors.	161181	2997337	
ERA 1440	Film Element ??? Simple Critical Word Line	1965	R. J. Bergman, Roy Prohofsky	518,372	3,354,445	1967	Specification, 9 international sent ERA 1264, 1437, 1436, 1425, 1440	161181	2997337	
ERA 1436	Memory apparatus and method (patent - method of reducing fistory efforts in Mated-Film elements)	1965	R. J. Bergman, L. A. Prohofsky	502,820	3,357,804	1967	Specification, company sponsored	161181	2997337	
ERA 1427	Rope Memory	1966	D. Fausett	538,831			Abandoned 1969	161181	2997337	
ERA 1425	Continuous Vapor Deposition of Mated-Film Elements	1965	R. F. Halverson	503,364	3,353,169	1968	Sent to 9 International, 1264, 1437, 1436, 1425, 1440. Filed Japan Ser. No. 7064,3166 specification	161181	2997337	
ERA 1393	Deposition Apparatus and Method	1966	Marlin Hanson, William Harvey, Paul Oberg	518,129	3,446,936	1969		161181	2997337	
ERA 1365	Memory apparatus and Method (Two-Wire Bit - Organized Memory System)	1965	R. H. Moberg	511,172	3,479,656	1969	Japan, Great Britain, Canada, 8 International Italy Patent 785,884, company sponsored	161181	2997337	
ERA 1317	Continuous Vacuum Deposition app and met	1966	Charles Bukkla, Donald Ryberg, John Lemke, Raymond Olson	547,619	3,469,560	1969	Company sponsored	161181	2997337	
ERA 1127	Photochromic Material	19164	Ralph Andes, Donald Manikowski	408,199	3,454,414	1969		161181	2997337	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
1043	Data Processing System	1964	E. J. Farrell, G. F. Murette, R. R. Lachenmayer	358,918	3,504,164	03/31/70	Defines data processing techniques for classifying unknown wave forms.	161661	2997799	
1076 SRI*	Memory Apparatus and Method	1964		351,413			Application filed under a secrecy.	161661	2997799	
1076 C,J*	Memory Apparatus and Method	1964	F. G. Hewitt, J. S. Korkowski, C. W. Lundberg, R. H. James	351,413			Order by the U.S. Patent Office	161661	2997799	
1076	Memory Apparatus and Method	1964	F. G. Hewitt, J. S. Korkowski, C. W. Lundberg, R. H. James	351,413	3,432,818	03/11/69	Radiation Hardened Recording System	161661	2997799	
1498	RF Feedthrough Assembly	1968	J. F. Duryee	700,237	3,539,430	11/10/70	Method of Assembling a device that transmits RF power through a vacuum barrier.	161661	2997799	
1521	Pulse Repetition to analog Voltage converter	1967	G. F. Nelson	669,318	3,529,247	09/15/70	Detects changes in the repetition rate of a countinuous train of electrical signals and produces an analog voltage representative of the repetition rate	161661	2997799	
1581	Evaporant Material Control for Vapor Deposition Apparatus	1967	R. G. Lins	623,343	3,488,214	01/06/70		161661	2997799	
1652	Magnetic Record Member Profile Correction Apparatus for a Rotating Head Drum Memory System	1968	G. D. Bukovich, M. J. Grundtner, H. W. Schultz				Abandoned	161661	2997799	
1676	Dummy Wire Selection Scheme for Data Processing equipment Memory System	1968	A. E. Liepa	701,591	3,533,083	10/06/70	Used in 9200, 9300 and 9700 Systems	161661	2997799	
1723	Electrical Connector	1969	D. G. Dorn	809,765	3,534,324	10/13/70	Design utilizing spring biased ball contact elements which are individually adjustable to provide appropriate biasing forces.	161661	2997799	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
807	Switching Matrix	1966	J. A. Kolling	543,263	3496,545	1970		161695	2997831	
836	Manually Operable Format Control Unit for the Real-Time Operation of a Data Processing System	1966	H. E. Nelson	602,265	3480,945	1969	Has foreign patent application attached.	161695	2997831	
1024	Thin Film Detector	1964	W. B. Johnson	360,317	3405,398	1969		161695	2997831	
1070	Magnetic Memory Comparator	1964	R. H. James, et.al.	378,151	3423,738	1969	Combined in ERA 1070-SR1	161695	2997831	
1138	Magnetic Memory System Employing Low Amplitude and Short duration Drive Signals	1963	R. H. James, et.al.	333,331	3359,546	1967		161695	2997831	
1318	Digital Demodulator Network	1967	N. F. Priebe	610,847	3488,600	1970		161695	2997831	
1448	Flip-Flop Utilizing dual-Threshold Logic	1965	M. Cohn	516,974				161695	2997831	
1547	Bi-directional Distribution System	1967	D. V. Mager	619,970	3488,634	1970	A very basic fundamental concept	161695	2997831	
1549	Temperature Sensing Current Source	1966	J. A. Howe	601,726	3488,529	1970	also 1549-J, 1549-SRI	161695	2997831	
1583	Sandwiched Magnetic Memory Element	1967	E. L. Kruger, et.al.	618, 838	3500,357	1970		161695	2997831	
1672	Three Phase Full Wave Rectifier	1968	R. B. Welsh	693,658	3492,560	1970		161695	2997831	
1797	Oscillative Magnetometer	1969	F. R. Janish, et.al.	769,595			Abandoned, also includes 3 folders of drawings	161695	2997831	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	File "7325000 ITU"	1984					Engineering Design Information File - Memory Processor Equipment Full Scale Development Integeration Test Unit	161697	2997833	
	File "EDM Proposal 4230"	1979					Data for Contract Definitization Memory Processor	161697	2997833	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	File "7315966 I/O Tester"						Tech Data for Memory Processor I/O Tester	161699	2997833	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	TRASH							161706	2997842	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
1143	Data Processing System	1964	A. D. Betz, et.al.	371, 321	3,331,055	7/11/1967	Data communication system, I/O multiplexing of com lines on time-sharing basis	162260	2998319	
1187	Magnetic Apparatus for sampling discrete levels of data	1964	L. Harklau, et.al.	385, 994	3,392,377	7/9/1968	Method of interrogating magnetic cores	162260	2998319	
1212	Data Processing System	1965	E. L. Krieger	450, 070	N/A	N/A	Abandoned, not different from patent #2,881,976	162260	2998319	
1213	Masking Device	1964	Paul E. Oberg	395, 381	3,330,252	7/11/1967	Apparatus for holding extremely thin flexible mask in contact with substrate during thin film manufacture	162260	2998319	
1238	Data Recording Apparatus	1965	W. R. Johnson	492, 385	3,405,404	10/8/1968	Magnetic head structure for a multiple channel flying magnetic record-read head	162260	2998319	
1271	Memory Apparatus and Method	1965	W. W. Davis	465, 461	3,387,274	6/4/1968	Memory search function block-by-block in a multiblock search memory system	162260	2998319	
1299	Hamming Magnitude Determinator	1965	M. Cohn, et.al.	479, 410	3,336,468	8/15/1967	Determines the hamming magnitude (number of binary ones) of a binary word	162260	2998319	
1300	Power Supply Apparatus	1965	L. A. Johnson	487, 003	3,359,484	12/19/67	Power supply regulator with fail-safe protection for accidental short circuiting of the load	162260	2998319	
1304	n-State Control Circuit	1965	R. M. Oman	466, 964	3,350,579	10/31/67	Frequency divider circuit for division in powers other than two	162260	2998319	
1308	Core Memory Test independent of the computer program	1965	R. C. Reichow	479, 397	3,387,276	06/04/68	Testing individual memory modules while the central processor continues to operate with the remaining memory modules in action	162260	2998319	
1327	Sleeve Type Drum Recording Apparatus	1966	G. J. Ehalt	524, 267	3,390,385	06/25/68	Removable type magnetic recording sleeves	162260	2998319	
1350	Spiral Vacuum Deposition Apparatus and Method	1965	P. E. Oberg, et.al.	516, 893	3,386,853	06/04/68	Evaporation source in a thin film deposition apparatus with a spiral shape. Avoids large particle spattering to produce uniform film.	162260	2998319	
1360	Signal Responsive Apparatus	1965	P. Figielski	480, 711	3,404,286	10/01/68	High fan-out driver circuit capable of driving a relatively large plurality of similar logic circuits	162260	2998319	
1438	Electrode Apparatus & Method	1965	D. H. Smith	503, 268	N/A	N/A	Abandoned, invention is obvious	162260	2998319	
1764	Spin Method of Mounting Stud-Supported Electrical Circuit Elements on a Plastic Board	1967	A. K. Anderson	660, 559	N/A	N/A	Abandoned, covered in previous patent	162260	2998319	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
1408	Access control for memory addresses	1968	C.W.Ehrman	695, 100	3514, 761	5/26/70		162799	2998739	
1253	Task Control	1965	G. Mellen	513, 226	3530, 438	9/22/70	3 other inventors listed	162799	2998739	
1422	Transistor circuit apparatus and method	1965	L.L. Fletcher	491, 998	3524, 999	8/19/70		162799	2998739	
1463	Magnetic drum enclosure	1967	G.J. Ehalt, et.al.	670, 673	3514, 771	5/26/1970		162799	2998739	
1567	Photocromic Schiff base copolymer	1967	J.E. Kovacic	633, 423	3483, 162	12/9/1969		162799	2998739	
1631	Magnetostriction monitor for continuous vapor deposition processor	1968	F.B. Engelmann	678, 448	3499, 790			162799	2998739	
1661	Time variable stop bit scheme for data processing system	1968	D.G. Streif	738, 483	3528, 060	9/8/70		162799	2998739	
1678	Flexible magnetic record no. profile correction means for rotating head drum	1968	G.D. Bukovich	695, 502	3525, 087			162799	2998739	
1734	Sense Line Load Compensation for Read-Only Capacitive Memory Array	1968	H.W. Moore, III	722,840				162799	2998739	
1771	Magneto-optic Readout of Multi-stage analog storage Magnetic Film Elements	1969	M.C. Paul	828,0623	3521,262	7/21/70		162799	2998739	
1789	Television Automatic Intrusion Detection System	1967	Earl M. Kertchner					162799	2998739	
1771	Magneto optic readout of multi-stage analog magnetic film element	1969	M. C. Paul, et.al.	828, 623	3, 521, 262	3/5/1970	Optical readout of stored info in magnetic thin film	162799	2998739	
1789	Automatic T.V. appartus	1967	E. M. Kartchner	600, 732			TV automatic intrusion detection system	162799	2998739	
1678	Flexible record member profile correcting system	1967	G. D. Bukovich	595, 502	3,525,087	3/9/1970	Profile correction system for rotating head drum magnetic storage system	162799	2998739	
1567	Photochromic Schiff base copolymers	1967	J. E. Kovacic	633, 423	3,483,162	4/25/1969	Photochromic copolymers and thin film for use in display and memory	162799	2998739	
1253	Task Control	1966	G. Mellen	513, 226	3,530,438	3/30/1970	Task executive control for withdrawing program memory location address from task table memory	162799	2998739	
1422	Transistor circuit apparatus of method	1965	L. L. Fletcher	491, 998	3,524,999	10/8/1965	Compensation of ionizing radiation	162799	2998739	
1408	Access control for memory addresses	1967	C. W. Ehrman	695, 100	3,514,761	11/3/1969	Technique to control data insertion into a continuously cycling memory	162799	2998739	
1463	Magnetic drum enclosure	1970	G. J. Ehalt	670, 673	3,514,771	2/2/1970	Shroud for flying head drum memory	162799	2998739	
1631	Magnetostriction monitor for continuous vapor deposition	1969	F. B. Englemann	678,448	rejected			162799	2998739	
1661	Time variable stop bit scheme for data processing system		D. J. Streif	738, 483	3,528,060	6/17/1968	Selectively variable in stop bit duration	162799	2998739	
1734	Sense line load compensation for a read only capacitive array	1968	H. W. Moore	722, 840			Abandoned	162799	2998739	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	Improved Extended Tab Memory Frame and Method of Mgr.	1973	K. L. Schoettle		3,739,466	06/19/73	Core Memory Tabs	163371	2999287	
	Synchro to Digital Converter	1972	L. C. Metz		3,688,303	08/29/72	Converts angle of rotation	163371	2999287	
	Memory Array Readout Scheme	1973	G. L. Grundy		3,715,737	02/06/73	Detects leading and trailing edge of Sense Signal	163371	2999287	
	RHD Cord Transportation and Positioning	1973	G. D. Buckovich		3,726,519	04/10/73	Rotating Head Drum and Reader	163371	2999287	
	Digital to Synchro/Resolver Converter	1972	L. C. Metz		3,675,234	07/04/72	Digital to angle of rotation device converter	163371	2999287	
	Improved Card Brake	1973	L. A. Vos		3,727,912	04/17/73	Air jet sensing	163371	2999287	
	Magneto Optic Phase Correlator	1972	F. G. Hewitt			02/01/72	Find correlation between pulse patterns	163371	2999287	
	Apparatus for Arithmetic Division	1972	H. A. Koehler		3,684,879	08/15/72	Uses multiples of the division stored in memory	163371	2999287	
	Parallel Bit Counter	1972	R. R. Brown		3,634,658	01/04/72	Counts sum of bits in a parallel binary number	163371	2999287	
	Magnetic Read Head	1972	G. F. Sauter				Abandoned	163371	2999287	
	Low Level Pulse Polarity Detector	1972	T. L. Krocheski		3,666,968	05/30/72	Output signal from a binary memory	163371	2999287	
	Method of Manufacturing Extended Tab Core Memory Frame		Joseph A. Speldrich					163371	2999287	
	4-Phase Clock System		Thomas W. Mack, Finley E. McLead					163371	2999287	
	Logic Circuit (High Speed)		W. C. Mavity	08/02/65	ERA 215KP 3,237,024	05/22/62	4 transistors and many diodes	163371	2999287	
	Normalizer		Glen R. Kregness				Used with "shift counting". 7 international applications	163371	2999287	
	Testing Method		R. F. Rohde				Application for foreign patents. Great Britain Patent, Sept 1967	163371	2999287	
	Testing Method		R. F. Rohde				Canada	163371	2999287	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 2174	Switchable constant current sink	1974	V. M. Benrud	467, 971	3,983,453	1976	CRT deflection circuit	165609	3000479	
ERA 2214	Full-duplex digital transmission line system	1973	E. S. Griffith, William Davis	399, 908	3,983,323	1976		165609	3000479	
ERA 2276	Toggle switch/indicator circuit		Thomas F. Bovitz	466, 444	3,986,039	1976		165609	3000479	
ERA 2247	Oligatonic Ferromagnetic Film Bubble Memory	1974	E. J. Torok, Simon Lund	484, 833	3,964,034	1976	Cross tie wall invention, Filed: French, Italy	165609	3000479	
ERA 2332	Bi Directional Logic System	1975	H. W. Moore III R. R. McGee	547, 156	3,967,059	1976	Suitable for bi-bus arrangements for memory proc/mem/peripheral control...	165609	3000479	
ERA 2343	Half Frequency Feed Ring Generator of Single Wall Domains	1975	L. J. Kochel Stanley Lins	611, 105	3,988,723	1976	A bubble memory arrangement. Foreign filed also.	165609	3000479	
ERA 2344	Time of Event Recorder	1975	J. V. Drexler, Pearson, Alan Kaske	574, 144	3,984,815	1976	foreign filing	165609	3000479	
ERA 2360	Phase Locked Loop NRZ Data Repeater	1975	W. W. Davis	609, 323	3,992,581	1976	Regenerative repeater	165609	3000479	
ERA 2378	Jet Cooled Cold Plate for Circuit Cards	1976	R. L. Sampson, et.al.	652, 346				165609	3000479	
ERA 2403	Variable Turn Coil Winder	1975	D. L. Breu	634, 397	3,981,333	1976	Facilitates intermediately tapped electrical transformers	165609	3000479	
ERA 2414	Stylus Assembly		A. J. Nolzer	631, 633	3,978,494	1976		165609	3000479	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
1162	Signal Responsive Apparatus	1965	L. H. Ernst	467, 516	N/A	N/A	Abandoned. Similar patent existed.	165980	3000678	
1168	Data Communications System	1965	N. F. Priebe	371, 429	N/A	N/A	Abandoned	165980	3000678	
1176	Signal Responsive Apparatus	1964	P. E. Oberg, et.al.	407, 413	3,382,448	05/07/68	Magneto-Resistive Amplifier	165980	3000678	
1186	Magnetic Head Spacing Method & Apparatus	1965	W. H. Stark	423, 132	3,383,667	05/14/68	Method for assembling magnetic heads using core spacer member and head spacer member	165980	3000678	
1232	Magneto-resistive Frequency Doubler	1964	P. O. Oberg, et.al.	375, 482	3,353,086	11/14/67	Doubles the frequency of a sinusoidal signal (or generate a frequency of 2 ⁿ using n doubling units)	165980	3000678	
1287	Data Processing System	1965	A. R. Talarczyk	478, 885	3,355,718	11/28/67	Programmably variable selection for reading and recording interlaced data on a magnetic drum	165980	3000678	
1298	Hamming Magnitude Comparator	1965	R. Lindaman	479, 419	3,350,685	10/31/67	Means for comparing the Hamming magnitude of two binary words, comprising "n" stages.	165980	3000678	
1502	Strain-relieved electrical lead connector system for wire-wrap electronic module	1966	J. D. Bratsch	580, 694	3,365,539	01/23/68	Relieves strain during wire-wrap on connector pins for multi-layered magnetic memory systems	165980	3000678	
1506	Head positioner for a magnetic data storage device	1964	H. L. Daniels	336, 804	3,353,167	11/14/67	Apparatus for positioning a read/write head at selected positions on a rectilinear path over the surface of a magnetic recording medium	165980	3000678	
1588	Wide Band Voltage Controlled OSC	1967	P. H. Conway	606, 947	3,382,457	05/07/68	Wide band voltage controlled multivibrator	165980	3000678	
1622	Digital Vector Generator	1967	H. E. Nelson	693, 797	N/A	N/A	Abandoned. Digitally controlled CRT generator	165980	3000678	

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Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
ERA 2031	Digital Computer Incorporating Base Relative Addressing of Instructions	1971	L. R. Carlson, et.al.	133,654	3731,283	05/01/73	Used in UYK-7 Includes foreign applications.	170641	3001840	
ERA 2159	Multi-Processor System with Multiple Cache Memories	1973	T. R. Macdonald	347,970	3848,234	11/12/74	Includes Japanese application (rejected)	170641	3001840	
ERA 2036	Bidirectional Lever Arm Clutch	1972	K. W. Hanson	239,084	3727,734	04/17/73	Used in a cassette tape handler. Application to Japan also.	170641	3001840	
ERA 1377PA	Conditioner and Bit Synchronizer	1970	P. H. Conway of Conway Engineering	14,846	3851,266	11/26/74	Involves JPL and telemetering	170641	3001840	
ERA 1377PB	Phase Lock Loop with Sampling, etc.	1970	P. H. Conway of Conway Engineering	14,847	3840,821	10/08/74		170641	3001840	
ERA 1377	Signal Conditioner and Bit Synchronizer	1967	P. H. Conway	606,882			See Dockets ERA1377PA and ERA1377PB	170641	3001840	
ERA 1377P	Signal Conditioner and Bit Synchronizer	1967	P. H. Conway	660,159			See Dockets ERA1377PA and ERA1377PB	170641	3001840	
ERA 2161	A Programmable Diffraction Grating	1973	E. J. Torok	375,255	3861,784	01/21/75	Numerous foreign applications as well. For aerial photography.	170641	3001840	
ERA 2163	Printer Variable Form Length Controller	1973	J. A. Taggart	399,230	3856,128	12/24/74		170641	3001840	
ERA 1810A	Two-way Communication System Employing Two-Clock-Freq. Pseudo-Noise Signal Modulation	1971	E. M. Kartchner,et.al.	209,476	3728,529	04/17/73		170641	3001840	

Legacy Patents

Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
2379	Continuous-Wave Ranging System	1976	J. E. Holladay and B. M. Spencer	672,808	4,057,801	11/08/77	SLC item	171420	3,002,109	
2383	An Error Logging Technique for Semiconductor Memories	1975	J. S. Nichols				Application dropped	171420	3002109	
2399	Memory with Error Correction	1968	G. W. Kurtz and A. K. Pattin	759,972	3,568,153	03/02/71	Assigned to IBM	171420	3002109	
2463	Method of Reducing Word Line to Sense Line Coupled Noise	1975	John H. Andreasen				Not filed due to prior patents of others	171420	3002109	
2495	Inrush Limiting Device	1976	D. L. Callahan				Filed from Univac Canada, dropped	171420	3002109	
2559	Resync System	1977	M. L. Granberg, et.al.				Dropped because of prior public demo	171420	3002109	
2569	Deposited Electromagnetic Structures for Selective Annihilation in a Cross-Tie Memory	1977	E. J. Torok				Held for "reduction to practice"	171420	3002109	
2590	Line Scanning Digitizer	1977	J. B. McFerran				Dropped	171420	3002109	
2602	Bubble Lattice Memory	1977	R. E. Lunc				Dropped, not novel	171420	3002109	
2612	An Adaptive PCM Coding System for Speech	1978	D. P. Andersen				Dropped because of IEEE paper	171420	3002109	
2637	Rail Flaw Detection Digital Signal Processor	1978	P. L. Phipps				Dropped because of prior British patents	171420	3002109	

Legacy Patents

Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	AN/UYK-7 Semi-conductor Memory various Engineering files	1976-1977					Presentations, analyses, notes from development effort for UYK-7 SCM	171568	3002242	

Legacy Patents

Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
947	Printed Circuit Board Fabrication Process	1962	G. F. Johnson, et.al.	243,332				171969	3002517	
962	Buffer Assembler Model 2	1962	R. M. Oman				R. S. 20734	171969	3002517	
ERA 1151K	Magnetic Memory Element having Information Core and Readout Core	1968	W. W. Davis, et.al.	722,815	3564,516	1971		171969	3002517	
1233	Carry and Comparator Networks for Multi-input Majority Logic Elements	1967	W. H. Hanson	312,880	3534,404	1970		171969	3002517	
1619	Programmable Margin Controls for Magnetic Memory	1968	E. P. Hadd, et.al.	763,643	3573,743	1971		171969	3002517	
1655	A Magnetizable Memory Element having a plurality of Read only Data states	1967	A. D. Kaske	669,493	3480,928	1969		171969	3002517	
1656	A Multi-layered Mated-film Memory Element having pairs of layers of differing HK	1967	R. J. Bergman	315,386	3480,929	1969		171969	3002517	
Salt Lake 22407	Power supply having parallel dissipative and switching regulators	1969	W. D. Wynn	858,399	3600,667	1971		171969	3002517	

Legacy Patents

Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
SRI*	Sperry Rand International - Patent applied for in Great Britain, France, Italy, Switzerland, and West Germany									
CJ*	Sperry Rand International - Patent applied for in Canada and Japan									

Legacy Patents

Legacy Docket No.	Title	Year	Author(s)	Patent Information			Other Information	Box Numbers		
				Application S/N	Number	Apprvl Date		Legacy Co. #	Iron Mtn #	CBI
	VHF Nand Gate Crystal Oscillator	1974	D. E. Berlien, et.al.	ERA 2260	3,916,345	Oct-75	+ folder of originals			

Proposal Design Disclosure Letters from Lab Dept.
Intellectual Property Rights Terms and Conditions

Proposal	Year	Author(s)	Title	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
J-20018 thru J-21693	76-81		Several proposals not separately identified or listed	273034	3324705	
J-21195 thru J-23593	82-85		Several proposals not separately identified or listed	273034	3324705	
J-30006 thru J-31052	77-85		Several proposals not separately identified or listed	273034	3324705	
J-51015	84		FAA ARTs III/IIIA Support	273034	3324705	
J-40597	81		3 folders, Boeing, B-1 Proposal 1750 Avionics Processor	273034	3324705	
J-60407	81		2 folders, McDonnell Douglas F-15 Wild Weasel Proposal	273034	3324705	
J-22495	83		U.S. Coast Guard CPFF	273034	3324705	
J-40009	76		Field Artillery Acoustic Locating System (FAALS)	273034	3324705	
J-40008	76		Precision Emitter Location Strike System (PELSS)	273034	3324705	
J-40012	77		B-1 Program Avionics Memory Modules	273034	3324705	
J-40017	76		Area Control Center Display System	273034	3324705	
J-40032	76		HACKLEY Engineering Model Development	273034	3324705	
J-40038	76		Track geometry Measurement System (TGMS)	273034	3324705	
J-40059	76		DOT/TSC DAS-1	273034	3324705	
J-40074	76		Aviation-Automated Weather Observation Station (AV-WOS)	273034	3324705	
J-40079	76		BLACKER Computer Support	273034	3324705	

Proposal Design Disclosure Letters from Lab Dept.
Intellectual Property Rights Terms and Conditions

Proposal	Year	Author(s)	Title	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
J-40088	76		Radiation Hardened MNDS Manufacturing Methods	273034	3324705	
J-40090	76		Army/Assist 1652	273034	3324705	
J-40127	76		Use of "frozen" magnetically encoded data	273034	3324705	
J-40128	76		Data Processing Technology Analysis and Integration for Midcourse and boost phase ballistic missile defense	273034	3324705	
J-40151	77		AN/UYP-15 O/I Maintenance and Programming Training	273034	3324705	
J-40183	77		Modular C3 Interface	273034	3324705	
J-40192	77		Axiomatic Requirements Engineering	273034	3324705	
J-40201	78		Evaluation of Absorbent Liquid Collectors (solar heading cells)	273034	3324705	
J-40207	77		Solar Cell Semiconductor Program	273034	3324705	
J-40213	78		8K Memory U1616	273034	3324705	
J-40233	77		Line Printer Purchase	273034	3324705	
J-40303	77		Field Emission Cathode Study	273034	3324705	
J-40310	79		Single Subscriber Terminal (SST) ofo the TRI-TAC family of Modular Record Traffic (MRTT)	273034	3324705	
J-40328	78		LGM-30 Minuteman Weapon System Command Buffer Components	273034	3324705	
J-40330, J-40363	78		U-1652 Display Terminal	273034	3324705	

Proposal Design Disclosure Letters from Lab Dept.
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Proposal	Year	Author(s)	Title	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
J-40346	78		EARTS	273034	3324705	
J-40411	79		TCCF Computer Programmer Trainin	273034	3324705	
J-40422	79		Minuteman Memory Test and Training Courses	273034	3324705	
J-40451	80		RTS Printer Replacement	273034	3324705	
J-40501	80		AFSCF Automatic Data Processing Equipment Maintenance and Support	273034	3324705	
				273034	3324705	
J-40520	80		LATIRN Heads Up Display	273034	3324705	
J-40597	81		Avionics Control Unit (ACU for B-1 Bomber	273034	3324705	
J-40656	81		MATE Development and Production	273034	3324705	
J-41212	84		Militarized Magnetic Tape Emulator	273034	3324705	
J-41037	84		ADA Evaluation and Validation Technical Support to USAF Wright-Patterson AFB	273034	3324705	
J-41409	85		Very High Speed Integrated Circuit (VHSIC) AN/AYK-14 Modules	273034	3324705	

Legacy White Papers

Title	Year	Author(s)	Other Information	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
Military Engineering Symposia Review	62	Phipps, Block, Disiletz, et.al.	Software	135399	2988120	
Advanced Manufacturing Techniques	FY70	Univac	Excellent. Lots of color pictures	135399	2988120	
Proposed R&D FY67		Univac	Shred?	135399	2988120	
Univac Technology Review	70	Univac	Good	135399	2988120	
Research on Ultra High-Speed Digital Techniques	62-65	Univac	Good, multiple phases several documents	135399	2988120	
Univac Modular Arrays	66	Univac		135399	2988120	
DSD Engineering Symposia	63, 64, 67	Univac	Check individual articles	135399	2988120	
Univac FSD Quarterly Technical Report	70	Univac	Check individual articles	135399	2988120	
Advanced Product Quarterly Tech Report	68, 69	Univac	Check individual articles	135399	2988120	

Legacy White Papers

Title	Year	Author(s)	Other Information	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
Nike-X continuous vacuum evaporator development	1965	Univac	ERA 1317, for Western Electric Co.	161181	2997337	

Legacy White Papers

Title	Year	Author(s)	Other Information	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
Carry Save Adder	12/14/70	A. W. Cheney/ M. Danilenko	DER 2014	163959	2999848	
12-Bit Parity Checker, ECL MSI Circuit	12/14/70	Donald W. Phillion	DER 2017	163959	2999848	
8-Bit Parity/One and Only One Detector	1/5/72	Donald W. Phillion	DER 2095	163959	2999848	
Byte/Error Correction Integrated Circuit	1/5/72	Donald W. Phillion	DER 2101	163959	2999848	
Electronic Packaging System	5/11/72	R. H. Moberg/ L. J. Michaud	DER 2165	163959	2999848	
Mini-Portable Data System	7/11/73	John A. Smyuski	DER 2226	163959	2999848	
Mini-Portable Data System	4/9/73	John A. Smyuski	DER 2228	163959	2999848	
Overvoltage Shut-down Circuit	9/11/73	R. J. Shepherdson	DER 2254	163959	2999848	
Core Memory Array Stringing Apparatus	1/31/74	Ronald A. Beck, Dennis L. Breu	DER 2278	163959	2999848	
Semi-automatic Diagnostic Isolation Unit	7/1/74	Harry Moore Richard Wagner	DER 2301	163959	2999848	
Polyphase Rectifier System	Jun-74	D. A. Fodness	DER 2310	163959	2999848	
Device for forming leads of Dip's in vendor storage tube	10/11/1974	Dean Henrickson Gordon H. Peterson	DER 2317	163959	2999848	
Optical Superimposition Technique	10/11/1974	R. L. Ebright, D. J. Ojo	DER 2314	163959	2999848	
Contact Jumer & Retainer	Jul-74	J. W. Black III	DER 2317, Circuit Board enclosed	163959	2999848	
Low Inertia Directional Antenna	7/30/1974	Lawrence L. Rainwater	DER 2318	163959	2999848	
Stepper Motor Control for 2-Axis Antenna	8/1/1974	Lawrence L. Rainwater	DER 2319	163959	2999848	
Compensate Sense Threshold for Core Memories	9/3/1974	J. A. Howe, M. P. Fedde, R. D. Turnquist	DER 2324	163959	2999848	
Universal Test Head with Interface Board	8/14/1974	James R. Lindstrom	DER 2325	163959	2999848	
Bolt Circle/Polygon Templet	9/10/1974	Richard Stoker	DER 2330	163959	2999848	

Legacy White Papers

Title	Year	Author(s)	Other Information	Box Numbers		
				Legacy Co. #	Iron Mtn #	CBI
Variable Length Counter	11/5/1974	G. D. Rattlingourd	DER 2334	163959	2999848	
Byte Channel Shared Peripheral Interface	11/22/1974	Michael L. Silk	DER 2336	163959	2999848	
Paper Sensing	11/25/1974	John A. Henderson	DER 2340	163959	2999848	
Heavy Wire Core Winding Apparatus	Dec-74	J.R. Oliver, P.E. Oberg	DER 2341	163959	2999848	
Deposition Technique for covering spray areas or extending dred of vapor-deposited films	1/9/1975	M. Paul, J. Staubus, R. Dean	DER 2345	163959	2999848	
Battery Capacity Indicator	Dec-74	T. L. Krocheski	DER 2351	163959	2999848	
Apparatus and method for compensating for the angle-of-incidence effect in the vacuum deposition of Anisotropic Ferromagnetic Films	1/9/1975	Sidney M. Rubens	DER 2352	163959	2999848	
CLOS Network Path Selector	Jan-75	Donald M. Moran	DER 2355	163959	2999848	
Accoustic Activated Print Mechanism	1/21/1975	Clark L. Smith	DER 2356	163959	2999848	
Shock Activated Print Mechanism	1/21/1975	Clark L. Smith	DER 2357	163959	2999848	
Photodetector Preamplifier Improvement	1/13/1975	W. W. Davis	DER 2359	163959	2999848	
Epoxy Etchback Solution for the Removal of Drilling Smear on Pth Printed Circuit Boards	2/12/275	David R. Peterson	DERA 2362	163959	2999848	
System Alterable Read Only Memory	Jan-75	T. P. Penkduskas	DERA 2363	163959	2999848	
Pressure Loading Device for Maintaining Electrical Contact of a Resistance Headed Vapor Deposition Boot Source	3/4/1975	Richard H. Dean Stanley J. Lins Maynard C. Paul	DERA 2370	163959	2999848	
Battery Pack for Voltage Level Indicator (VLI)	3/7/1975	Terry B. Zbinden	DERA 2371	163959	2999848	
Temperature Compensated Low Power CMOS Oscillator	3/18/1975	T. L. Krocheski D. E. Fosler Jr.	DERA 2376	163959	2999848	

Legacy White Papers

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				Legacy Co. #	Iron Mtn #	CBI
Mechanical Interlock for Cabinet Drawers	4/10/1975	George W. Jensen	DERA 2382	163959	2999848	
Modulated, High Level Retrace, Trapezoidal Waveform Generator	5/21/1975	John Krawczak	DERA 2388	163959	2999848	
Damped Sine Wave Generator	6/11/1975	Floyd V. Miller	DERA 2396	163959	2999848	
Printed Circuit Board Holder	6/12/1975	R. F. Gabriel	DERA 2400	163959	2999848	
Transistor Lead Splice Ferrule "Crimp Type"	6/24/1975	W. LeRoy Hillman	DERA 2404	163959	2999848	
Stylus Cleaner	9/5/1975	A. J. Noker and Veldon Wilde	DERA 2415	163959	2999848	