

7/12/8

Graduate College

University Resource Board

Patent and Invention Disclosure Files, 1934, 1958-1994

Box 1:

Alder and Goldstein, "Use of Gamma Radiator in a Nuclear Reaction and Measuring the Gamma Radiation Ionizate Effect," 1965, 1968

Bardeen, "Electronic Transistor," 1958, 1962

Bauman, "Induction of Lactation in Nonpregnant Dairy Animal," 1976-77

Beauchamp and Ribbers, "Hermonic Tone Generator," 1965

Bergeron, "Catalytic Materials," 1977

Bitzer and Slottow, "Plasma Display Panel Apparatus Having Variable. Density Display," 1971

Bitzer and Slottow, "Plasma Display Panel Apparatus Having Multilayered Stable Status for Variable Density," 1968-71

Bitzer, "Automated Teaching Machine," 1968, 1970, 1973

Bitzer, "Fluid Positionable Means and Fluid Control Means Therefore," 1973

Bitzer, Bandy, Johnson and Skaperdas, "Radial and Circumferential Magnetic Head Positioning Mechanism," 1972-73, 1975

"Random Access Silecti Apparatus," 1973

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Bitzer, Stofle and Johnson, "Transfer Receiver for the transmission of Digital Data over Standard Television Channels," 1973

Bitzer and Tucker, "Method and Apparatus of Addressing and Sustaining Gas Discharge Panels," 1978

Bitzer, Tucker and Keasler, "High Speed Motion Suitable for Operating with a Switched Network," 1980

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Brady and Noyes, "Apparatus for Gripping and Holding Small Workpieces," 1978

Brightman and Theodorakis, "Biodegradable Ocular Insert for Controlled Delivery of Ophthalmic Medication," 1981-84

Buchanan, Deford and Sircar, "Low Temperature Densification of Zirconia Ceramics," 1980, 1981

Buchanan and Wittner, "Low Temperature Densification of PZT Ceramics," 1979, 1981

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Carl, Philip, "Hydrolytic Enzyme Activatable Antenna," 1962, 1964

Carrel and Mayes, "Multi Band Log Periodic Antenna," 1962, 1964

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Cohen, "Magnetic Study of Bioelectric Phenomena," 1971

Crandall, "Vaccine for Equine Rhinopneumonitis," 1980

Foreign Patents, 1979-82

Cummins, Jr., "Delivery of Biologically Active Components of Heterologous Species Interferon Isolates," 1980

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Danielewicz, "Laser Output Coupler," 1976-77
Debrunner and Frauenfelder, "Digital Signal Averager with Logarithmic Time Base," 1974, 1976
Dimik, "Apparatus for Measuring Mass Flow Using and Shield Probe," 1964, 1967
Delowy, Cornet and Ammeraal, "Treatment of Intracranial Tumors with Escherichia Coli
L-Asparaginase," 1967
Drago and El A'mma, "Heterogenous Anionic Transition Metal Catalysts," (5 folders), 1979,
1982-84

Box 2:

Drago, Russell, "Heterogenous Anionic Transition Metal Catalysts," 1982
Drago, Russell, "Heterogenous Anionic Transition Metal Catalysts," 1983
DuHamel, "Frequency Independence Antennas," 1958, 1961
DuHamel, "Logarithmically Periodic Rod Antenna," 1963
Dyson, "Unidirectional Broadband Antenna Compromising Modified Balanced Equiangular
Spiral," 1960
Dyson and Mayes, "Circularly Polarized Omnidirectional Cone Mounted Spiral," 1962, 1965
Dziuk and Cook, "Solid State Implant," 1966
Ebeling, Johnson, and Goldhor, "Infrared Light Beam x-4 Position Encoder for Display Devices,"
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Ebeling, Parry, Johnson, "Infrared Beam x-y Touch...", 1972
Fairbanks, et al., "Recording and Method of Making Same," 1962
"Method and Device for Reproducing Signals of Sound," 1962
"Recording Device," 1962
Ferris and Arambulo, "TGE Virus Vaccine," 1974
Flygare and Ware, "Electrophoretic Light Scattering," 1973
Flygare and Ware, "Analysis for Polymer Mixtures in Solution Utilizing Electrophoretic Light
Scattering Apparatus," 1975
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Ganic, "System for Separation of Water from the Working Fluid in Low Temperature Difference
Power Plants," 1981
Gaul and Drago, "Polymer Bound Multidentate Complexes," 1980-82
Goland, "Method and Composition for Inhibiting Dental Cares," 1965, 1969
Goland, "Fixation of Tissues for Microscopic Examination by Reactive Halo-s-Triazines," 1971
Goland, Zerlotti and DeToledo, "Method of Treatment of Deep-seated Caries and Dental Pulp,"
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Greene, "Sputtering Method and Apparatus," 1974
Greiser, "Log-periodic Antenna Structure," 1968
Hager, Rinehart, Sham, and White, "Antimicrobial Agents from Marine Organisms," 1979
Handler and Frova, "Apparatus and Method for Modulation of Light," 1965

Handler, "Light Chopper and Variable Width Slit," 1965
 Hendricks, "Method for Producing Uniform Spherical Shells," 1982
 Hepperly and Sinclair, "Treated Legume Seed Method for Preparing Same," 1977
 Hess, Street, and Morkoc, "Negative Resistance Heterojunction Devices," 1981
 Holonyak and Rezek, "Homogeneous Liquid Phase Epitaxial Growth of Heterojunction," 1982
 Holonyak, "Semiconductor Light Emitting Device," 1981
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 Holonyak and Rezek, "Liquid Phase Epitaxial (LPE) or Vapor phase Epitaxial (UPE) Growth of Thin Layered III-V Semiconductor Device Structure that exhibits quantum side effects and Quantum Coupling," (no documents on file), 1987
 Holonyak and Laidig, "Method for producing integrated Semiconductor Light Emitter," 1983
 Holonyak and Sirkis, "Volume excited semiconductor platelet laser," 1967
 Holshouser, "Crossed-field dynamic electron multiplier," 1966
 Holzman and Baldwin, "Isolation of Bacterial Luciferase," 1983
 Hummei and Engstrom, "Control and Survey trap for Chrysomelid Beetles," 1980
 Hunsinger and Hamna, "Surface Acoustic Wave Resonator," 1979
 Ingerson, "Broadband Negative Resistance Device," 1969
 Ingerson, "Log-periodic Scaled Directional Coupler Feed Line for Antennas," 1972
 Ingerson, "Modulated Impedance Feeding System for Log-Periodic Antennas," 1972
 Itoh, "Waveguide having Strip Dielectric Structure," 1977
 Johnson and Coates, "Optical Read-out/Read-in Apparatus for Plasma Display/Memory Panels, 1974
 Johnson and Weber, "Graphic System Apparatus Utilizing Plasma Display/Memory Devices with Direct Electrical Read-out," 1976
 Jones and Johnson, "Method and Apparatus for Reliably Parallel Self Shifting Information in a Plasma Display/Memory Panel," 1975
 Joyce, C., et. al, "Contraceptive Method," 1983

Box 3:

Kaminski, Bauer and Zaneveld, "Contraceptive Method and Composition," 1982
 Kansy, "Surface Wave Device Having a Ferroelectric Substrate with a Sinusoidal Pole Region," 1975
 Kansy and Culton, "Variable Delay Device," 1975
 Kaplan, Fraley, and Fornarl, "Transfers Involving Liposome Vehicle," 1980
 Katzenellenbogen, "Synthesis of Isoprenoid 1, 5-dienes," 1977
 Kopek and Stifle, "Digital-to-Analog Converter," 1966
 Malocha, "Tuned Unidirectional Surface Wave Transducer," 1980
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 Mayes and Poggio, "Antennas," 1970

Mayes and Stephenson, "Dipole Antenna Arrays," 1964
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 "Log Periodic Backward Wave Antenna Array," 1965
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 Merkelo, "Optoelectronic Sampling Head," 1974
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 "Diphenyl Methane Biodegradable Insecticides," 1977
 Also Other Countries
 Metcalf and Hirwe, "Preparation of P-P-Disubstituted Diaryl Trichloroethanes," 1976
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 "Insecticidal Biodegradable Methylthio Analogs of DDT," 1974
 Massotti and Eakin, "Modulator Apparatus Utilizing Piezoelectric Plates," 1973
 Nelson and Duvall, "Potato Peeling Process and Apparatus," 1966
 Nelson and Kwiat, "Method and Apparatus for Freeze-Dehydration of Sliced Food Materials,"
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 Nelson, "Extrusion Texturization of Full-Fat Soybean and Product Therof," 1979
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 Patterson, "Procedure for Use of Genic Male Sterility in Production Against Phytophthora Root
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 Plant Diseases," 1986, 1988-89 (5 folders)

Box 4:

Paxton, Jack, Protection of Soybeans and other Plants against Phytophthora Root Rot and other
 Plant Diseases, 1988 (5 folders)
 Payne, Park and Jahnke, "Method of Producing Internal Boundary Layer Ceramic Compositions,"
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 "Internal Boundary Layer Ceramic Compositions," 1982
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also foreign patents
 Payne and Park, "Heterophasic Ceramic Capacitor," 1979
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 also foreign patents
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 Rebeiz, "In Vitro Net Biosynthesis of Chlorophyll and Grana," 1974, 1976
 Rinehart, Antosz and Sasaki, "Biologically Active Compounds," 1973
 "Derivatives of Streptovarian Ansamycins," 1976, 1978
 also Japan patents
 Rinehart and Knoll, "Atropisomeric Ansa Ring Compounds," 1974, 1976
 Rinehart, "Composition of Matter and Process," 1980
 Rinehart, McMillan and Sobiczewski, "Biologically Active Compounds," 1974, 1976, 1978
 Rinehart, Kenneth L., Jr., et al, "Aayl and Carbamimidoyl Alkanediamines," 1979
 Rinehart, Shier, and Loltlieb, "Novel Antibiotics and Preparation Thereof," 1969
 "Method of Making Antibiotics Containing the Aminocyclitol Subunit," 1970, 1972
 "Hybrimicin Antibiotics and Derivatives," 1971, 1974

Box 5:

Ristic and Levy, "Propagation of Babesia Parasites," 1979-81
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 Todorovic, Ristic, and Smith, "Malaria Vaccine and Malaria Diagnostic Test," 1967
 Ristic and Arellano, "Babesiosis Antigen," 1979-80
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 Ristic and Levy, "Anaplasma Antigen," 1981
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 Rostoker, "High Silicon, Iron-based Alloy," 1980
 Rostoker and Galante, "Prosthetic Devices," 1970
 Satterwaite and Ries, "Sensing Element for the Measurement of Liquid Level," 1963, 1966
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 Schuemann, "Ionization Gauge Having a Photo-Current Suppressor Electrode," 1962, 1965, 1967
 Shulman, Morton, and Sadore, Max, "Anesthesia Method and Compositions using 1, 1,
 1-Trifluorethyl
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 Sharma, "Catalysts for Controlled Nuclear Fusion," 1977

- Slottow and Petty, "Method and Apparatus for Obtaining Variable Intensity and Multistable States in a Plasma Panel," 1970, 1972
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- Soo, "Electro-aerodynamic Precipitator," 1967, 1969-70
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- Spiegelman, et al patents (2 folders)
- (1) "Synthesis InVitro of Nucleic Acids and products used therein," 1972
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- (2) "Interference with Biologically Active RNA Formation," 1969
"Replication of Mutant Nucleic Acids," 1969
"Synthesized Mutant RNA and Methods of Preparing Same," 1972
- Stifle, "Method and Apparatus for Plotting Line Segments and Characters in a Display Device," 1975
- Stifle and Johnson, "Modulator-Demodulator Apparatus for Communication of Digital Data over Voice Grade Telephone Lines," 1973
- Trogdon, "Method for Reliably Lighting Cells in a Plasma Display Panel," 1974
- Trogdon, "Apparatus for Driving Plasma Panels," 1971
- Tucker, et al, "Tracking Light Pen System," 1974
- Vassos, "Electrical Feedthrough," 1963
- Von Smolinski, et al, "Sulfur Oxide Determination," 1976
- Voss and Kardos, "Fluorescence Immune Assay for Quantitative Measurement of Antibody Activity in Biological Fluids," 1981
- Voth, "Flexible Surface Disc for Magnetic Recorders," 1970
- Walter, "Inhibition by Peptides of Tolerance to and Dependence on Opioid Drugs," 1981
- Wayman, "Solid State Thermal Engine," 1981
- Weathersbee, et al, "Controlling Sex of Mammalian Offspring," 1975
- Weber, "Optical Write-In Method and Apparatus for a Plasma Display Panel," 1974
- White and Hager, "Instrument for the Automated Determination of Organic Halogens," 1978-79
- Widra, "Hydrophilic Biopolymeric Copolyelectrolytes and Biodegradable Wound Dressing Comprising Same," 1982
- Wyrwicz and Burt, "Method and Apparatus for Monitoring Bloodstream Nuclei by means of NMR Spectroscopy," 1981

Box 6:

- (UI 1667) Hess, Streetman, and Morkoc, "Real Space Transfer Devices," 1979-90.
- (UI 1675) Shimp, Helfinstine, Cooper and Kuse, "Coal Char Which Is Highly Susceptible to Chemical Benefication," 1979-82.
- (UIUC 1688) Buchanan and Sircar, "Low Temperature Densification of ZrO₂ with B₂O₃

- Additive," 1980-89.
- (UIUC 1695) Holonyak and Rezek, "Liquid Phase Epitaxial (LPE) Growth of Uniform Composition III-V Alloy Active Regions in Semi-Conductor Heterostructures, 1980-82.
- (UIUC 1700) Mayes, "Low Profile Electromagnetic Radiator," 1982.
- (UIUC 1701) Flygare and Balle, "The Use of Farby-Perto Pulsed Transorm Microwave Sctroscopty to Observe Transient Atomic and Molecular Species," 1979-83.
- (UI 1711/1805) Levy and Ristic, "Vaccines against Malaria," 1981-84.
- (UPI 1714) Baldwin and Holzman, "An Affinity Chromatographic Media for Isolation of Bacterial Luciferase," 1980-93.
- (UIF 1725) Bardeen, "Quantum Dectector or Mixer Making Use of Linear-Chain Charge-Density-Wave Materials," 1980-91.
- (UIF 1773) Eden, McCown, and Ediger, "Multi-Wavelength Metal Halide Lasers," 1981-86.
- (UIF 1799) Holonyak, "Disordering of a Quantum-Well Heterostructure," 1982-91.
- (UIU 1782) Morkoc, "Field Effect Transistor Device and Method of Fabrication," 1981-86.
- (UIU 1807) Kruse, Jones, and Cooper, "A Nonoxidative Method for Modifying Agglomerating Behavior of Coal," 1982-84.
- (UI 1808) Stifle, Lee, and Bitzer, "CATV Data Transmission System," 1983-89.
- (UI 1809) Mochel and Humphreys, "Electron Beam Cutting," 1982-92.
- (UI 1810) Brown and Nubel, "A Process for Regioselective and Stereoselective Synthesis of Internal Olefins," 1982-93 (3 folders).
- (UI 1814) Andersen, Bitzer, Rader, Sherwood, and Tucker, "Cluster Computer-Based Education System," 1983-94 (2 folders).
- (UI 1811) Weber, "A New Gas Discharge Logic Technique that Reduces the Number of Circuit Drivers for AC Plasma Display Panels," 1987-89.
- (UI 1816) Paxton, "Protection of Soybeans Against Disease by Seed Treatment with Rhizosphere Bacteria," 1984-94 (folder 1 of 3).

Box 7:

- (UI 1816), folders 2 and 3.
- (UI 1817), Montoye, "Generalized Tally Ones Counter and Precharge Circuitry," 1983.
- (UI 1833), Mangel, Leytus, and Melhado, "Novel Rhodamine Derivatives as Fluorogenic Substrates of Proteinases," 1982-92.
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- (UI 1843), Cain and Frizzell, "Array of Cylindrical Focus Tapered Ultrasound Transducers," 1986-91.
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Box 8:

- (UI 1986) Ofek, "A Family of Conservative Codes with Block Delimiters for Serial Communication, which is Designed for Decoding without a Phase-Locked Loop, 1986-88.
- (UI 1998) Salyers, "DNA Hybridization Probes for Detecting Clinically Important Bateroides," 1986-94.
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Box 9:

- Labthermics, (folder 7)
- (UI 2025) Song, "Recycling Two-Step Subranging Flash Analog-to-Digital Converter," 1987-90.
- (UI 2047) Broka, "A Synthetic Route to the Aglycon Moeity of the Pseudopterოსins," 1987.
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- (UI 2066) Newell and Miller, "A Window that Efficiently Transmits and Reflects Solar Radiation while Significantly Improving Window Insulation Value," 1988-90.
- (UI 2067), Mazumder and Sircar, "Synthesis of Nickel Based Superalloys with Extended Solid

- Solution of Rare Earth for High Temperature Environment," 1988-93.
- (UI 2080), Moeinzadhe, Knoebel, Hendrick, and Brusnigham, "Wheelchair Locomotion Specific Arm-Crank Ergometer," 1988-90.
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- (UI 89024), "Steinberg, Mistry, and Eckhoff, "Wet Milling Process to Produce Edible Germ and Dietary Fiber," 1989-90.
- (UIUC 89029), "Dry and Biggar, "Phosphate-bonded Materials Made from Bottom-ash and Fly-ash," 1989- 90.
- (UIUC 89036), Newell and Lewis, "A Device for the Separation of Clear Containers (e.g. glass bottles, plastic containers) from Non-Clear or Colored Containers," 1989-94.
- (UIUC 88035), Berg, Morris, Young, Francis, and Russell, "Development of a Water Resistant, Hydraulic Cement Polymer Composite, which is Fabricated by High- Shear Mixing," 1988-93.
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- (UIUC 89037), Kolodzey and Laskar, "Cryogenic Probe Station for High Frequency Measurements," 1989- 93.
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Box 10:

North Campus Ventures, 1990-1991
 New Methods Research, Inc., 1989
 Secrecy Agreement—Schering, 1993
 Multilinks and Text-linked Video Software (Michael Mullin), 1993
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 University and Microelectronics Computer Technology, 1989
 Agreements with Authors, 1991-1993
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 College of Agriculture—Land O'Lakes Amsoy 71 Soybean, 1990-1992
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Box 11:

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 License Agreement for Perfect Benchmarks -IBM, 1991
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 Memo of Understanding (CSRD) Fujitsu American, Inc., 1989
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 Special Rider to CSRD Software License with Intermetrics for FAUST, 1992
 Fast Software-Cosmic, 1993
 EXXON Research and Engr. Co., 1992
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 Environmental Research Institute of Michigan (ERIM) Software Lic., 1988
 ESTRU-Estrus Status Tracking Utility Software, 1991

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Cooperator Secrecy Agreement DowElanco-Prof. Lambert, 1993
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