

## PATENT ASSIGNMENT

Electronic Version v1.1  
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| SUBMISSION TYPE:   | NEW ASSIGNMENT                            |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                                |
| CONVEYING PARTY DATA   |   |
| Name   | Execution Date                            |
| University Technology Corporation  | 07/22/2002                                |
| RECEIVING PARTY DATA   |   |
| Name:  | The Regents of the University of Colorado |
| Street Address:  | 1800 Grant Street                         |
| Internal Address:  | 8th Floor                                 |
| City:  | Denver                                    |
| State/Country:   | COLORADO                                  |
| Postal Code:   | 80203                                     |
| PROPERTY NUMBERS Total: 1  |   |
| Property Type  | Number                                    |
| Application Number:  | 10825282                                  |
| CORRESPONDENCE DATA  |   |
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| ATTORNEY DOCKET NUMBER:  | 606332000200                              |
| NAME OF SUBMITTER:   | Terri Shieh-Newton                        |

Total Attachments: 29

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PATENT ASSIGNMENT

THIS ASSIGNMENT is made effective as of April 30, 2002, by and between UNIVERSITY TECHNOLOGY CORPORATION, a Colorado nonprofit corporation ("Assignor") and THE REGENTS OF THE UNIVERSITY OF COLORADO, a body corporate ("Assignee").

WHEREAS, Assignee wishes to acquire and Assignor wishes to assign all of its right, title and interest in, to and under the patents and patent applications listed on Exhibit A attached hereto (collectively, the "Patent Properties").

NOW, THEREFORE, for good and valuable consideration paid by Assignee to Assignor, receipt of which is hereby acknowledged, Assignor agrees to sell, assign, transfer and set over and does hereby sell, assign, transfer and set over to Assignee, its entire right, title and interest in and to the Patent Properties, as well as the inventions claimed in such Patent Properties, for the United States and for all foreign countries, including any continuations, divisions, continuations-in-part, reissues or extensions thereof for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made; together with all claims for damages by reason of past, present or future infringement or other unauthorized use, with the right to sue for, and collect the same for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives.

Assignor shall provide to Assignee, its successors, assigns or other legal representatives, cooperation and assistance at Assignee's reasonable request and reasonable expense (including the execution and delivery of any and all affidavits, declarations, oaths, assignments, powers of attorney or other documentation as may be reasonably required): (1) in the preparation and prosecution of any applications covering inventions assigned herein; (2) in the prosecution or defense of any interference, opposition, reexamination, reissue, infringement or other proceedings that may arise in connection with any of the patent rights assigned herein, including testifying as to any facts relating to the patent rights assigned herein and this Assignment; (3) in obtaining any additional patent protection that Assignee may deem appropriate which may be secured under the laws now or hereafter in effect in the United States or any other country; and (4) in the implementation or perfection of this Assignment.

IN TESTIMONY WHEREOF, the undersigned has executed this Patent Assignment to be effective as of the 30<sup>th</sup> day of April, 2002.

ASSIGNEE:

ASSIGNOR:

THE REGENTS OF THE UNIVERSITY OF COLORADO, a body corporate

UNIVERSITY TECHNOLOGY CORPORATION, a Colorado nonprofit corporation

By: J.R.W. Blin for  
Its: President

By: [Signature]  
Its: President

STATE OF COLORADO )  
 ) ss.  
COUNTY OF BOULDER )

Before me, the undersigned, a Notary Public, in and for said County and State, personally appeared John W. Bliss, as designee for the President of the University of Colorado, and acknowledged the execution of the foregoing Patent Assignment this 26<sup>th</sup> day of July, 2002.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my seal.

Margaret K. Amis  
Notary Public  
My commission expires: 2/8/03

STATE OF COLORADO )  
 ) ss.  
COUNTY OF BOULDER )

Before me, the undersigned, a Notary Public, in and for said County and State, personally appeared Jerry Donahue, President of University Technology Corporation, and acknowledged the execution of the foregoing Patent Assignment this 22 day of July, 2002.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my seal.

Anne Baudier  
Notary Public  
My commission expires: August 26, 2003

EXHIBIT A

PATENTS AND PATENT APPLICATIONS  
[Schedules 1.2(c)(i) and (ii)]

## Schedule 1.2(c)(ii) Patent Applications

## PCT Applications

| Patent Title  | Disclosure No | File Date  | Pat Ser No      | Licensee                                       | Assignee |
|---|---------------|------------|-----------------|--|----------|
| Improved Methods for Protein Refolding  | 1997.8068H    | 10/31/2001 | PCT application |  |          |
| Method for Modulation of Cell Phenotype   | 1998.9075H    | 10/12/2000 | PCT/US00/28316  | Jointly owned with VA & NJH                    |          |
| Porous Membrane and Thin Film Structure Control Device Employing an Electric Field          | 1999.10009B   | 6/18/2001  | PCT/US01/19394  |  |          |
| Compositions and Methods for Regulating Metabolism in Plants                                | 1999.10031C   | 3/30/2001  | PCT/US01/10236  |  |          |
| Compositions and methods for treating wounds using cyanoacrylate wound sealant and silver   | 1999.10040C   | 3/30/2001  | PCT/US01/10245  |  |          |
| Stable (Fixed) Forms of Viral Capsid Proteins, and Viral Capsid Protein Fusions, Preferable | 1999.10042H   | 6/11/2001  | PCT/US01/18701  | Jointly owned with Georgetown                  |          |
| Thermal dissociation...   | 1999.10058B   | 5/8/2001   | PCT/US01/15160  | Jointly owned with NREL                        |          |
| Selective toxin expression in angiogenic endothelial cells                                  | 1999.10059H   | 11/3/2000  | PCT/US00/30471  |  |          |
| Progesterone Receptor-Regulated Gene Expression and Methods Related Thereto                 | 1999.10091H   | 6/28/2001  | PCT/US01/20612  |  |          |
| Altered HOX and WNT7a Expression in Human Lung Cancer                                       | 2001.014H     | 10/11/2001 | PCT/US01/31960  |  |          |
| Inhibitors of Viral Infection   | 2001.021B     | 5/22/2001  | PCT/US01/16674  | Jointly owned with Stanford; optioned to Lilly |          |
| Rapid Conversion of Metal-Containing Compounds to Form Metal or Metal-Oxides                | 1999.10045B   | 2/22/2001  | PCT/US01/06032  | OMG Americas                                   |          |
| Compositions and Methods for Controlled-Release Delivery and Increased Potency of           | 1999.10030B   | 11/1/2001  | PCT/US00/30424  |  |          |

Schedule 1.2(c)(i)  
 Issued Patents  
 U.S. Issued Patents

| Patent Title  | Disclosure No | File Date  | Issue Date | Pat Ser No | Pat No    | Licensee | Assignee                            |
|---|---------------|------------|------------|------------|-----------|----------|-------------------------------------|
| Probe swivel mechanism  | 1981.CU139H   | 2/8/1985   | 2/10/1987  | 06/699,677 | 4,641,657 |          | University Patents Inc.             |
| Phosphoramidite nucleoside compounds                            | 1979.CU112B   | 8/6/1984   | 5/26/1987  | 637,927    | 4,668,777 |          | CTI                                 |
| Process and defined medium for growth of human epidermal        | 1982.CU174B   | 7/15/1983  | 6/16/1987  | 06/514,178 | 4,673,649 |          | CTI                                 |
| DC to Three Phase Switched Mode Converters                      | 1985.CU247B   | 5/7/1986   | 6/30/1987  | 860,405    | 4,677,539 |          | University Patents Inc.             |
| Flexible endoscopic ligating instrument                         | 1985.CU262H   | 1/13/1987  | 4/5/1988   | 07/003,045 | 4,735,194 |          | CTI                                 |
| Method for parallel fabrication of nanometer scale multi-device | 1987.FD1B     | 2/7/1989   | 2/7/1989   | 07/136,992 | 4,802,951 |          | Trustees of Boston U; University of |
| Surface stabilized ferroelectric liquid crystal devices         | 1982.CU181B   | 7/28/1988  | 6/20/1989  | 07/225,464 | 4,840,463 |          | CTI                                 |
| Superconductor devices useful for disk drives and the like      | 1988.FD17B    | 2/12/1988  | 6/27/1989  |            | 4,843,504 |          | U OF C FOUNDATION                   |
| Semiconductor Light Emitting Device                             | 1986.FD2B     | 4/22/1988  | 8/29/1989  |            | 4,862,471 |          | U of C Foundation                   |
| Superconductor Devices for Disk Drives                          | 1988.FD17B    | 4/12/1989  | 5/15/1990  |            | 4,926,082 |          | U OF C FOUNDATION                   |
| Assay for sulfhydryl amino acids and methods for detecting and  | 1985.CU280H   | 11/20/1986 | 7/10/1990  | 06/933,553 | 4,940,658 |          | CTI                                 |
| Process and defined medium for growth of human epidermal        | 1982.CU174B   | 12/9/1986  | 7/10/1990  | 06/939,579 | 4,940,666 |          | CTI                                 |
|   | 1989.FD88B    | 4/12/1990  | 11/13/1990 | 507,829    | 4,970,093 |          | U OF C FOUNDATION                   |
| Process for oligonucleotide synthesis using phosphormidite      | 1979.CU112B   | 9/18/1986  | 11/27/1990 | 909,070    | 4,973,679 |          | CTI                                 |
| Optoelectronic semiconductor device                             | 1989.FD688    | 10/27/1989 | 12/11/1990 |            | 4,977,433 |          | U OF C FOUNDATION                   |

Schedule 1.2(c)(i)  
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U.S. Issued Patents

| Patent Title  | Disclosure No  | File Date  | Issue Date | Pat Ser No | Pat No    | Licensee  | Assignee                        |
|---|----------------|------------|------------|------------|-----------|-----------|---------------------------------|
| Optical photodiode switch array with zener diode                      | 1988.FD49-FD3B | 9/8/1989   | 12/18/1990 |            | 4,979,002 |           | U OF C FOUNDATION               |
| RNA ribozyme polymerases, dephosphorylases,                           | 1986.CU274B    | 12/3/1986  | 1/22/1991  | 06/937,327 | 4,987,071 |           | CTI                             |
| Unitary skate assembly having vertical spring means                   | 1990.FD106B    | 4/11/1990  | 2/19/1991  |            | 4,993,725 |           | U OF C FOUNDATION               |
| Electromagnetic pyramidal cone absorber with improved low frequency   | 1989.FD35B     | 3/24/1989  | 5/14/1991  | 328,409    | 5,016,185 |           | U OF C FOUNDATION               |
| RNA ribozyme polymerases, and methods                                 | 1986.CU274B    | 3/16/1989  | 8/6/1991   | 07/324,385 | 5,037,746 |           | CTI                             |
| Spatial Light Modulators  | 1990.FD105B    | 5/11/1990  | 12/17/1991 | 522,609    | 5,073,010 |           | U OF C FOUNDATION               |
| Methods of detecting picornaviruses in biological fluids and tissues  | 1984.CU329H    | 3/27/1989  | 12/24/1991 | 07/329,428 | 5,075,212 |           | CTI                             |
| Interleukin-1 inhibitors  | 1987.FD20H     | 4/6/1990   | 12/24/1991 | 07/506,522 | 5,075,222 | Amgen     | U OF C FOUNDATION-<br>note: Eur |
| Storing information bearing signals in a superconductive              | 1989.FD87B     | 12/22/1989 | 1/7/1992   |            | 5,079,219 |           | U of C Foundation               |
| Recording head suspension utilizing superconductor means              | 1990.FD57B     | 6/1/1990   | 1/21/1992  |            | 5,082,827 |           | U of C Foundation               |
| Surface stabilized ferroelectric liquid crystal devices               | 1982.CU181B    | 3/9/1990   | 1/28/1992  | 07/491,464 | 5,083,855 |           | CTI                             |
| RNA ribozyme polymerases, dephosphorylases,                           | 1986.CU274B    | 8/3/1990   | 3/3/1992   | 07/562,672 | 5,093,246 |           | CTI                             |
| RNA ribozyme restriction endoribonucleases and methods                | 1986.CU274B    | 3/24/1989  | 5/26/1992  | 07/328,503 | 5,116,742 |           | CTI                             |
| Process for preparing polynucleotides                                 | 1979.CU112B    | 6/18/1984  | 7/21/1992  | 601,813    | 5,132,418 |           | CTI                             |
| Ferroelectric liquid crystal tunable filters and color arc-generation | 1987.FD26B     | 5/11/1990  | 7/21/1992  |            | 5,132,826 | ColorLink | U of C Foundation               |



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|---|---------------|------------|------------|------------|-----------|----------|------------------------------|
| HIV-1 Regulate Diphtheria Toxin   | 1990.FD167H   | 4/15/1991  | 4/26/1994  | 07/685,601 | 5,306,631 | Miles    | U of C Foundation            |
| CW and pulsed doppler diagnostic system                                       | 1981.CU139H   | 9/22/1988  | 5/24/1994  | 07/247,715 | 5,313,947 |          | ?<br>Belongs to UPI          |
| Media for Normal Human Muscle Satellite Cells                                 | 1987.FD288    | 8/12/1992  | 6/28/1994  | 928,958    | 5,324,656 |          | U of C Foundation            |
| RNA ribozyme which cleaves substrate RNA without formation of a               | 1986.CU274B   | 2/28/1992  | 10/11/1994 | 07/843,737 | 5,354,855 |          | CTI                          |
| DNA Sequences Encoding Proteins Used to Elicit and Detect Programmed Cell     | 1991.FD227H   | 7/20/1992  | 11/1/1994  |            | 5,360,893 |          | U of C Foundation            |
| Liquid Crystal Fiber Waveguide  | 1993.FD262B   | 2/19/1993  | 11/1/1994  | 08/019,856 | 5,361,320 |          | U of C Foundation            |
| Method for screening and distinguishing between cobalamin and folic acid      | 1985.CU280H   | 7/10/1991  | 12/20/1994 | 727,628    | 5,374,560 |          | CTI                          |
| Method for screening and distinguishing between cobalamin and folic acid      | 1991.FD165    |            | 12/20/1994 |            | 5,374,560 |          | U of C Foundation            |
| Optoelectronic maximum identifier for detecting the physical location of a    | 1991.FD181B   | 9/2/1993   | 1/3/1995   |            | 5,378,902 |          | Regents of the U of C        |
| Chiral smectic liquid crystal optical modulators having variable retardation  | 1993.FD175B   | 11/14/1991 | 1/10/1995  | 07/792,284 | 5,381,253 |          | Regents of the U of C        |
| High Power Factor Boost Rectifier Apparatus                                   | 1993.IR309B   | 12/10/1993 | 1/17/1995  | 08/165,404 | 5,383,109 |          | U of Colorado                |
| Human K-Casein  | 1991.FD225H   | 10/13/1992 | 2/21/1995  | 07/962,569 | 5,391,497 |          | U of C Foundation            |
| Methods of production of novel molybdenum-sulfide dimers and reactions of the | 1991.FD155B   | 8/27/1991  | 2/21/1995  |            | 5,391,791 |          | U of C Foundation            |
| Photoionization mass spectroscopy flux monitor                                | 1995.011.6011 | 2/19/1993  | 3/14/1995  | 19,854     | 5,397,895 |          | USA                          |
| Magnetic microparticles   | 1992.FD218H   | 7/20/1993  | 5/2/1995   |            | 5,411,730 |          | UTC<br>(reassigned from RCT) |

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|---|---------------|------------|------------|------------|-----------|----------|-------------------------|
| Yeast assay to identify inhibitors of dibasic amino acid processing                   | 1991.RC71H    | 7/7/1993   | 5/9/1995   | 08/088,322 | 5,413,914 |          | Regents of the U of C   |
| Methods of production of novel molybdenum-sulfide dimers and reactions of the         | 1991.FD155B   | 8/22/1993  | 5/9/1995   |            | 5,414,194 |          | Regents of the U of C   |
| Enhancing performance of perfluorinated ionomer membranes via dopant                  | 1991.FD189B   | 8/25/1992  | 5/23/1995  | 07/935,016 | 5,417,832 |          | U of C Foundation       |
| Methods of production of novel molybdenum-sulfide dimers and reactions of the         | 1991.FD155B   | 8/26/1993  | 8/4/1995   |            | 5,430,225 |          | U of C Foundation       |
| Convective Electrohydrodynamic fluid membranes  | 1992.FD197B   | 10/16/1992 | 7/18/1995  | 07/963,480 | 5,433,857 |          | U of C Foundation       |
| Assays for sulfhydryl amino acids and methylmalonic acid and their application to     | 1985.CU280H   | 10/14/1992 | 8/1/1995   | 960,783    | 5,438,017 |          | CTI                     |
| Assays for sulfhydryl amino acids and methylmalonic acid and their application to     | 19--.FD64H    |            | 8/1/1995   |            | 5,438,017 |          | U of C Foundation       |
| Use of Controlled Periodic Illumination for an Improved Method of                     | 1992.FD229B   | 9/30/1993  | 8/8/1995   | 129,849    | 5,439,652 |          | Regents of the U of C   |
| Convective Electrohydrodynamic fluid membranes  | 1992.FD197B   | 8/23/1993  | 8/15/1995  | 110,409    | 5,441,639 |          | Regents of the U of C   |
| Flux-trapped superconducting magnets and method of manufacture                        | 1993.FD279B   | 2/28/1994  | 8/22/1995  | 08/202,913 | 5,444,425 |          | Regents of the U of C   |
| Polynucleotide Phosphorodithioate   | 1987.CU311B   | 10/15/1993 | 9/26/1995  | 138,140    | 5,453,496 |          | CTI                     |
| Polynucleotide Phosphorodithioate   | 1987.CU311    |            | 9/26/1995  |            | 5,453,496 |          | University Patents Inc. |
| Diagnostic Method for Cobalamin Deficiency  | 19--.FD63     |            | 10/10/1995 |            | 5,457,055 |          | U of C Foundation       |
| Ceramic-zeolite composite membranes and use for separation of vapor-gas               | 1994.FD269B   | 2/24/1994  | 11/7/1995  |            | 5,464,798 |          | Not shown               |
| Chiral smectic liquid crystal multipass optical filters including a variable retarder | 1993.FD175B   | 10/27/1992 | 11/21/1995 | 967,218    | 5,469,279 |          | U of C Foundation       |

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|---|---------------|------------|------------|------------|-----------|--------------|----------------------------|
| Isolation and characterization of the nematode HER-1 gene and             | 1991.FD191B   | 2/9/1994   | 12/5/1995  |            | 5,472,871 |              | U of C Foundation          |
| Tunable Microwave Devices Incorporating High Temperature                  | 1992.FD228    | 12/1/1992  | 12/5/1995  | 07/983,632 | 5,472,935 |              | Not shown                  |
| Lateral electrode smectic liquid  | 1993.FD250B   |            | 2/20/1996  |            | 5,493,426 |              | U of C Foundation          |
| Ion-exchange supports for facilitated transport membranes with enhanced   | 1992.FD241B   | 2/1/1994   | 3/12/1996  | 08/189,563 | 5,498,823 |              | Regents of the U of C      |
| Smectic liquid crystal analog phase modulator                             | 1993.FD290B   | 11/15/1993 | 4/23/1996  |            | 5,510,914 |              | Regents of the U of C      |
| Range Estimation Apparatus and Method                                     | 1992.FD209B   | 6/25/1993  | 5/28/1996  |            | 5,521,695 | CDM Optics   | Regents of the U of C      |
| DNA Sequence Encoding Human Cystathionine Beta-ntase                      | 1992.FD283H   | 9/13/1993  | 6/4/1996   | 120,960    | 5,523,225 |              | Regents of the U of C      |
| DNA Sequences Encoding Proteins Used to Elicit and Detect Programmed Cell | 1991.FD227H   | 10/19/1994 | 6/18/1996  |            | 5,527,682 |              | Regents of the U of C      |
| Split-element liquid crystal tunable optical filter                       | 1992.FD271B   | 7/12/1994  | 6/18/1996  |            | 5,528,393 | ColorLink    | Regents of the U of C      |
| Ferroelectric liquid crystals for nonlinear optics applications           | 1988.FD94B    | 11/19/1993 | 8/6/1996   |            | 5,543,078 | Displaytec h | University Research Corp.  |
| DNA sequence encoding a polypeptide with anti-tumor properties            | 1994.IR436H   | 10/9/1993  | 8/6/1996   | 08/516,545 | 5,543,499 |              | Wake Forest U (co-owner)   |
| Chiral smectic liquid crystal optical modulators                          | 1993.FD175B   | 11/5/1992  | 9/3/1996   | 08/244,017 | 5,552,912 |              | Regents of the U of C      |
| Compositions and methods for inhibition of HIV production                 | 1990.FD167H   | 11/4/1993  | 9/10/1996  | 08/147,829 | 5,554,528 | Miles        | Board of Regents of U of C |
| Surface stabilized ferroelectric liquid crystal devices with dielectric   | 1982.CU181B   | 10/30/1992 | 9/10/1996  | 07/969,386 | 5,555,111 |              | CTI                        |
| Surface stabilized ferroelectric liquid crystal devices                   | 1982.CU181B   | 5/31/1995  | 9/10/1996  | 08/455,329 | 5,555,117 |              | CTI                        |

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|---|---------------|-----------|------------|------------|-----------|----------------|------------------------------------|
| Gas chromatography/mass spectrometry determination of oxidized sulfhydryl amino | 1993.IR332H   | 5/4/1994  | 9/24/1996  | 08/238,754 | 5,559,038 |                | Regents of the U of C              |
| Silicon Quantum Dot Laser   | 1993.FD240B   | 6/7/1995  | 9/24/1996  | 07/473,523 | 5,559,822 |                | Regents of the U of C              |
| Dual Photodetector for Determining Peak Intensity of Pixels in an Array Using   | 1993.FD288B   | 9/30/1994 | 10/1/1996  | 08/316,552 | 5,561,287 |                | Board of Regents of U of C         |
| Systemic Evolution of Ligands by Exponential Enrichment: Solution               | 1990.FD91B    | 6/5/1997  | 10/22/1996 |            | 5,567,588 | Gilead         | University Research Corp.          |
| Autonomous parvovirus gene delivery vehicles and expression vectors             | 1992.FD253H   | 4/2/1993  | 12/17/1996 | 08/042,419 | 5,585,254 |                | U of C Foundation                  |
| Tunable Electric Antenna Apparatus Including Ferroelectric Material             | 1992.FD228    | 6/7/1995  | 12/31/1996 | 484,012    | 5,589,845 |                | Superconducting Core Technologies, |
| RNA ribozyme polymerases, phosphorylases,                                       | 1986.CU274B   | 7/21/1994 | 1/7/1997   | 08/278,624 | 5,591,610 |                | CTI                                |
| Epitope for prevention of type I diabetes                                       | 1993.IR336H   | 2/22/1995 | 1/14/1997  | 394,004    | 5,594,100 |                | Regents of the U of C              |
| Self-assembled monolayers for liquid crystal alignment                          | 1993.IR315B   | 9/24/1993 | 1/21/1997  |            | 5,596,434 | Displaytech    | University Research Corp.          |
| Polynucleotide Phosphorodithioate Compounds                                     | 1987.CU311B   | 5/8/1995  | 2/11/1997  | 08/436,714 | 5,602,244 |                | CTI                                |
| Polynucleotide Phosphorodithioate Compounds                                     | 1987.CU311    |           | 2/11/1997  |            | 5,602,244 |                | Competitive Technologies, Inc.     |
| Spherical mirror grazing incidence X-ray optics                                 | 1993.IR324B   | 8/11/1995 | 2/18/1997  |            | 5,604,782 | Focused X-rays | Regents of the U of C              |
| Optical cooling of solids   | 1996.7108B    | 9/25/1995 | 4/1/1997   |            | 5,615,558 |                | not shown (co-inventor, NIST)      |
| Liquid Crystal Handedness Switch and Color Filter                               | 1992.IR297B   | 10/5/1993 | 4/8/1997   |            | 5,619,355 | ColorLink      | Regents of the U of C              |
| Blood Treatment Device with Moving Membrane                                     | 1993.IR376B   | 8/1/1994  | 5/6/1997   | 08/284,057 | 5,626,759 |                | Regents of the U of C              |

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|---|---------------|------------|------------|------------|-----------|------------------|--------------------------------|
| Yeast strains used to identify inhibitors of dibasic amino acid processing  | 1991.RC71H    | 5/5/1995   | 5/6/1997   | 08/437,820 | 5,627,043 |                  | Regents of the U of C          |
| Liquid crystal phase modulator using cholesteric circular polarizers        | 1993.IR302B   | 7/27/1994  | 5/6/1997   | 08/282,660 | 5,627,666 |                  | Board of Regents of the U of C |
| Ligation with hammerhead ribozymes  | 1996.7049B    | 7/14/1994  | 5/27/1997  | 08/275,156 | 5,633,133 | RPI              | not shown                      |
| Ferroelectric liquid crystals for nonlinear optics applications             | 1988.FD94B    |            | 6/10/1997  |            | 5,637,256 |                  | University Research Corp.      |
| Methods for Fine Particle Formation   | 1993.IR350B   | 4/8/1994   | 6/17/1997  |            | 5,639,441 | Temco; Aktiv-Dry | Board of Regents of U of C     |
| Bradykinin antagonist peptides containing indane-substituted amino acids    | 1993.IR348H   | 11/18/1994 | 7/15/1997  | 344,636    | 5,648,336 |                  | University of Colorado         |
| Screening for mutations by expressing CDNA fragments                        | 1992.FD284H   | 8/17/1993  | 8/12/1997  | 108,216    | 5,656,425 |                  | Regents of the U of C          |
| Liquid Crystal Achromatic Compound Retarder                                 | 1992.IR298B   | 4/7/1995   | 8/19/1997  |            | 5,658,490 | ColorLink        | Board of Regents of the U of C |
| Ferroelectric liquid crystals for nonlinear optics applications             | 1988.FD94B    |            | 8/19/1997  |            | 5,658,493 |                  | URC                            |
| Rotation Alignment Instrument   | 1995.6049H    | 2/16/1996  | 9/23/1997  | 08/602,996 | 5,669,914 |                  | Board of Regents of the U of C |
| Method for the treatment of ischemic disease and reperfusion injury and the | 1995.6028H    | 2/9/1996   | 9/23/1997  | 08/598,926 | 5,670,545 | Keystone         | Board of Regents of the U of C |
| Asymmetrical femoral component for knee prosthesis                          | 1995.6039H    |            | 10/28/1997 |            | 5,681,354 |                  | Board of Regents, U of C       |
| Biological Denitrification of Water   | 1993.IR327B   | 1/11/1996  | 10/28/1997 | 08/583,848 | 5,681,471 | Pall Corp.       | Regents of the U of C          |
|   | 1987.CU311B   | 5/17/1995  | 11/4/1997  | 442,705    | 5,684,148 |                  | CTI                            |
| Nucleoside Thiophosphoramidites   | 1987.CU311    |            | 11/4/1997  |            | 5,684,148 |                  | Competitive Technologies, Inc. |

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|--|---------------|------------|------------|------------|-----------|--------------------|---------------------------------------|
| Apparatus and method for analyzing heart sounds                          | 1993.IR372H   | 7/3/1995   | 11/18/1997 | 08/498,673 | 5,687,738 |                    | The Regents of the U of C             |
| CD4+ T-lymphocyte proteases  | 1991.RC71H    | 1/5/1995   | 11/25/1997 | 08/368,852 | 5,691,183 |                    | University Technology Corporation     |
| Inhibition of Reverse Transcriptase by Phosphorodithioates               | 1987.CU311    |            | 12/9/1997  |            | 5,695,979 |                    | Competitive Technologies, Inc.        |
| Strategy for the production of RNA from immobilized templates            | 1993.IR301B   | 9/20/1993  | 12/23/1997 |            | 5,700,667 | Gilead             | Regents of the University of Colorado |
| Silicon quantum dot laser  | 1995.6019B    | 3/5/1996   | 12/30/1997 | 08/612,021 | 5,703,896 |                    | The Regents of the U of C             |
| Iron chelator and inhibitor of iron-mediated oxidant injury              | 1995.017.6017 | 2/3/1995   | 2/24/1998  |            | 5,721,209 | Keystone (Ucal/CU) | The Regents of the University of      |
| Stabismus surgery apparatus and method                                   | 1995.6054H    | 9/26/1996  | 3/3/1998   | 08/721,279 | 5,722,982 |                    | University Technology Corporation     |
| Asymmetric Condylar and Trochlea Femoral Knee Component                  | 1992.FD203H   | 11/3/1994  | 3/17/1998  | 334,385    | 5,728,162 |                    | Board of Regents of U of C            |
| Method and Material for Use with Dental Composites for Improving         | 1995.6065B    | 3/11/1996  | 3/24/1998  | 08/613,348 | 5,730,601 |                    | The Regents of the U of C             |
| Weakly neutrophilic anions   | 1994.IR441B   | 4/5/1996   | 3/24/1998  | 08/628,357 | 5,731,470 |                    | Board of Regents of the U of C        |
| Detecting and Treating Heart Failure                                     | 1994.IR436H   | 8/18/1995  | 3/31/1998  | 08/516,545 | 5,733,728 |                    | Regents of the U of C; Wake Forest U  |
| Liquid crystal optical frequency shifter                                 | 1989.FD109B   | 5/1/1995   | 4/14/1998  | 08/431,773 | 5,739,908 |                    | The Regents of the U of C             |
| Prostaglandin F-2 alpha receptor regulatory protein and therapeutic uses | 1994.IR454H   | 11/6/1995  | 5/5/1998   | 08/554,612 | 5,747,660 |                    | The University of Colorado            |
| Extended Depth of Field Optical Systems                                  | 1993.IR342B   | 3/17/1997  | 5/5/1998   |            | 5,748,371 | CDM Optics         | The Regents of the University of      |
| Polynucleotide Phosphorodithioate Compounds                              | 1987.CU311B   | 10/31/1994 | 5/12/1998  | 08/332,829 | 5,750,666 |                    | CTI                                   |

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|---|---------------|------------|------------|------------|-----------|-----------|---------------------------------------|
| Polynucleotide Phosphorodithioate Compounds                                   | 1987.CU311    |            | 5/12/1998  |            | 5,750,666 |           | Competitive Technologies, Inc.        |
| Color polarizers for polarizing an additive color spectrum along a first axis | 1995.IR400B   | 5/23/1995  | 5/12/1998  |            | 5,751,384 | ColorLink | The Board of Regents of the U of C    |
| Magneto-Biostic Method  | 1994.IR425H   | 3/19/1996  | 5/19/1998  | 08/617,685 | 5,753,477 |           | University Technology Corporation     |
| Method for the Treatment of Preserving Organs or Tissue for Transplantation   | 1995.6028H    | 5/23/1997  | 5/26/1998  | 08/862,534 | 5,756,547 | Keystone  | Regents of the U of C                 |
| Use of Fas Ligand to suppress T-lymphocyte mediated immune                    | 1993.IR377H   | 1/26/1995  | 6/2/1998   |            | 5,759,536 | Ceres     | University Technology Corporation     |
| Method and apparatus for displaying grey-scale or color images from binary    | 1994.IR460B   | 7/20/1995  | 6/16/1998  |            | 5,767,828 | KAJ       | The Regents of the U of C             |
| Solubilization of pharmaceutical substances in an organic solvent and         | 1994.IR415H   | 6/6/1995   | 6/23/1998  |            | 5,770,559 | RxKinetix | The Regents of the U of C             |
| LOCKING MECHANISM FOR VOLUNTARY CLOSING PROSTHETIC                            | 1994.IR408B   | 2/24/1997  | 9/1/1998   | 804545     | 5,800,571 |           | University Technology Corporation     |
| Angiotensin-Converting Enzyme Genetic Variant Screens                         | 1994.IR360H   | 12/6/1995  | 9/1/1998   |            | 5,800,990 | Myogen    | Regents of the U of C                 |
| In vivo electrochemistry computer system and method                           | 1992.FD248H   | 5/26/1995  | 9/15/1998  |            | 5,806,517 |           | The Regents of the U of C             |
| Laser Sensor Using Optical Feedback-Induced Frequency Modulation              | 1994.IR435B   | 4/5/1996   | 9/15/1998  | 08/629,361 | 5,808,743 |           | Board of Regents of the U of C (NIST) |
| Chemical Reactions in Water-in-Carbon Dioxide Microemulsions and              | 1995.6044B    | 1/31/1997  | 9/29/1998  | 08/792,517 | 5,814,678 |           | University Technology Corp.           |
| Varicella-Zoster Virus Antigen  | 1990.RC30H    | 7/6/1994   | 10/20/1998 | 08/271,397 | 5,824,319 | RCT       | RCT                                   |
| Method for enhancing the production of hemoproteins                           | 1993.IR316C   | 8/1/1995   | 10/20/1998 | 08/509,951 | 5,824,511 |           | University Technology Corporation     |
| Yeast-based delivery vehicles   | 1993.IR392H   | 11/15/1994 | 11/3/1998  |            | 5,830,463 | Ceres     | University Technology Corporation     |

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|---|---------------|------------|------------|------------|-----------|------------|---|
| DES-ARG9-BK Antagonists   | 1995.IR472H   | 9/8/1995   | 11/10/1998 |            | 5,834,431 |            | U of C; UTC<br>(co-owner<br>Cortech re- |
| Cytolytic bradykinin antagonists  | 1994.IR470H   | 9/8/1995   | 12/15/1998 | 08/526,065 | 5,849,863 |            | U of C; UTC<br>(co-owner<br>Cortech re- |
| Materials and methods for the bacterial production of isoprene            | 1994.IR337B   | 6/23/1995  | 12/15/1998 |            | 5,849,970 |            | The Regents of the University of        |
| Localization of a therapeutic agent in a cell in vitro                    | 1992.FD257B   | 10/14/1994 | 12/29/1998 |            | 5,854,038 | RPI        | University Research Corp.               |
| Temperature sensitive gel for sustained delivery of protein drugs         | 1995.6030H    | 7/12/1996  | 1/19/1999  |            | 5,861,174 | RxKinetix  | University Technology Corporation       |
| CD4+ T-Lymphocyte Proteases and Genes Encoding Said Proteases             | 1991.RC71H    | 9/8/1995   | 2/2/1999   | 08/525,940 | 5,866,351 |            | University Technology Corporation       |
| Non-Linear Carrier Controllers for High-Power Factor Rectification        | 1993.IR367B   | 1/12/1995  | 2/2/1999   | 08/371,822 | 5,867,379 |            | University of Colorado                  |
| Wave Electro-Optical Device and Method                                    | 1995.6076B    | 5/9/1997   | 2/9/1999   |            | 5,868,951 | KAJ        | University Technology Corporation       |
| Apparatus and method for estimating range                                 | 1993.IR334B   | 6/7/1995   | 2/9/1999   |            | 5,870,179 | CDM Optics | The Regents of the U of C               |
| T1BiBaCaCuO Based superconductors   | 1996.7047B    | 4/8/1997   | 2/23/1999  | 08/835,484 | 5,874,383 |            | University Technology Corporation       |
| Method of assembly of molecular-sized nets and scaffolding                | 1994.IR451B   | 9/6/1996   | 3/2/1999   | 08/711,448 | 5,876,830 |            | Board of Regents of The U of C          |
| Orthoester Protecting Groups in RNA SYNthesis Oligonucleotide Synthesis   | 1995.IR439B   | 6/9/1995   | 3/30/1999  | 08/488,878 | 5,889,136 | Dharmaco n | The Regents of the U of C               |
| Strain measuring apparatus grating method having a sensor and a reference | 1995.6079B    | 6/6/1997   | 3/30/1999  |            | 5,889,901 |            | University Technology Corporation       |
| Expansion Rotary Engine   | 1994.IR474B   | 5/7/1996   | 5/11/1999  | 08/646,125 | 5,901,554 |            | not shown                               |
| Aqueous Two-Phase Metal Affinity Partitioning Protein Purification System | 1995.6086B    | 5/26/1996  | 5/25/1999  | 08/861,587 | 5,907,035 | Baxter     | Baxter Biotech Technology Sarl (co-     |



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| Adaptive attenuating spatial light modulator                               | 1993.IR292B   | 7/8/1994   | 6/29/1999  | 08/272,726 | 5,917,568 |           | The Regents of the University of   |
| Liquid crystal cell and method for assembly thereof                        | 1996.7073B    | 5/9/1997   | 7/7/1999   |            | 5,919,606 | KAJ       | University Technology Corporation  |
| Product and process for membrane and soluble polypeptide segregation       | 1993.IR346B   | 3/21/1995  | 8/10/1999  | 08/407,900 | 5,935,822 |           | The Regents of the University of   |
| Bradykinin antagonists containing pentafluorophenylalanine                 | 1996.7065B    | 6/12/1998  | 8/10/1999  | 09/096,716 | 5,935,932 |           | University Technology Corporation  |
| Osmosensing histidine kinase   | 1996.7018H    | 4/16/1997  | 8/17/1999  | 08/843,530 | 5,939,306 |           | University Technology Corporation; |
| Liquid Crystal Eyewear with Two Identical Guest Host Subcells and Tilted   | 1996.7068B    | 3/25/1997  | 8/24/1999  | 08/826,315 | 5,943,104 |           | University Technology Corporation  |
| Display Having Gradient Response Pixels                                    | 1996.7008B    | 11/12/1996 | 9/14/1999  | 08/748,136 | 5,952,988 |           | University Technology Corp.        |
| Layer stacks for polarizing a first color spectrum along a first axis      | 1995.IR400B   | 5/8/1997   | 9/14/1999  |            | 5,953,083 | ColorLink | University Technology Corporation  |
| Apparatus and methods for analyzing body sounds                            | 1993.IR372H   | 11/15/1996 | 9/28/1999  | 08/746,738 | 5,957,866 | See-Hear  | University Technology Corporation  |
| Pixel buffer circuit for implementing improved methods of displaying grey- | 1994.IR460B   | 2/9/1996   | 9/28/1999  |            | 5,959,598 | KAJ       | The Regents of the U of C          |
| Metal Dependent Catalytic Antibodies and Method for Producing the Same     | 1995.6064B    | 10/10/1997 | 10/5/1999  | 08/949,220 | 5,962,291 |           | The Regents of the U of C          |
| Antenna system with edge treatment means for diminishing antenna           | 1999.10005B   | 4/14/1997  | 10/5/1999  | 08/843,170 | 5,963,176 |           | USA (Dept of Commerce, co-owner)   |
| CD4+ T-lymphocyte proteases  | 1991.RC71H    | 11/24/1997 | 11/9/1999  | 08/976,838 | 5,981,259 |           | University Technology Corporation  |
| Solubilization of pharmaceutical substances in an organic solvent and      | 1994.IR415H   | 6/17/1998  | 11/9/1999  |            | 5,981,474 | RxKinetix | University Technology Corporation  |
| Ultra-wide field viewing system  | 1997.8076B    | 5/15/1998  | 11/9/1999  | 09/079,489 | 5,982,549 |           | University Technology Corporation  |

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|---|-----------------|------------|------------|------------|-----------|------------------|--|
| Optical field propagation between tilted or offset planes                         | 1995.6096B      | 10/21/1997 | 11/9/1999  | 08/955,084 | 5,982,954 |                  | University Technology Corporation        |
| Yeast Silencing Genes, Proteins and Methods                                       | 1996.7034B      | 3/24/1998  | 11/23/1999 | 09/047,026 | 5,989,897 |                  | University Technology Corporation        |
| Method for alleviating varicella related post-herpetic neuralgia                  | 1992.IR366H     | 8/8/1994   | 12/7/1999  |            | 5,997,880 | Merck & Co. Inc. | Merck & Co., Inc; University of Colorado |
| Method of Treating Heart Failure  | 1996.7080H      | 6/19/1998  | 12/7/1999  |            | 5,998,458 | Myogen           | University Technology Corporation        |
| Orthoester Reagents for Use as Protecting Groups in Oligonucleotide               | 1995.IR439B     | 12/19/1997 | 12/28/1999 | 08/994,824 | 6,008,400 |                  | not shown                                |
| System and a Method for Frequency-Stabilizing a Diode Laser                       | 1996.071.7071 B | 4/17/1998  | 12/28/1999 | 09/062,629 | 6,009,111 |                  | University Technology Corporation        |
| Anti-Aliasing Apparatus and Methods for Optical Imaging                           | 1997.8055B      | 1/9/1998   | 2/1/2000   |            | 6,021,005 | CDM Optics       | University Technology Corporation        |
| NA ribozyme polymerases, dephosphorylases,  | 1986.CU274B     | 6/5/1996   | 2/15/2000  | 08/671,824 | 6,025,167 |                  | CTI                                      |
| Condenser System for Independently Controlling Humidity and Temperature           | 1996.7107B      | 9/23/1998  | 3/14/2000  | 09/159,296 | 6,036,746 |                  | University Technology Corporation        |
| Programmable Hologram Generator   | 1996.FD278      | 1/3/1997   | 3/21/2000  | 6,040,883  | 6,040,883 | KAJ              | University Technology Corporation        |
| Modification of Zeolite or Molecular Sieve Membranes Using Atomic                 | 1995.6035       | 1/21/1997  | 3/28/2000  | 08/786,675 | 6,043,177 |                  | University Technology Corporation        |
| Switchable Achromatic Compound Retarder (as amended)                              | 1992.IR298B     | 7/28/1997  | 4/4/2000   | 6,046,786  | 6,046,786 | ColorLink        | University Technology Corporation        |
| Variable length nonlinear feedbackshift registers with dynamically allocated taps | 1996.005.7005 B | 12/31/1996 | 4/11/2000  | 08/775,259 | 6,049,608 |                  | University Technology Corporation        |
| Modified Zeolite Membrane   | 1995.6035       | 1/26/1999  | 4/18/2000  | 09/236,891 | 6,051,517 |                  | University Technology Corporation        |
| Method for Treating Hyperoxia   | 1997.8041H      | 12/31/1997 | 5/2/2000   | 09/001,373 | 6,057,328 |                  | Cell Therapeutics, Inc.                  |

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|--|---------------|------------|------------|------------|-----------|------------------|--|
| Use of antioxidant agents to treat cholestatic liver disease                   | 1995.007.6007 | 12/7/1998  | 5/30/2000  | 08/784,247 | 6,069,167 |                  | University Technology Corporation      |
| Apparatus and methods for extending depth of field in image projection systems | 1997.8034B    | 5/7/1999   | 5/30/2000  |            | 6,069,738 | CDM Optics       | University Technology Corporation      |
| T1BiBaCaCuO Based Superconductors  | 1996.7047B    | 11/13/1998 | 6/27/2000  | 09/191,566 | 6,080,703 |                  | University Technology Corporation      |
| Method and apparatus for acoustically demixing aqueous solutions               | 1997.8077B    | 8/11/1998  | 7/18/2000  | 09/132,171 | 6,090,295 |                  | University Technology Corporation      |
| Method of growing films on substrates at room temperature using                | 1996.054.7054 | 10/2/1997  | 7/18/2000  | 08/942,522 | 6,090,442 |                  | University Technology Corporation      |
| Telomerase   | 1996.7093B    | 5/6/1997   | 7/25/2000  | 6,093,809  | 6,093,809 | Geron            | University Technology Corporation;     |
| Methods and Apparatus for Fine Particle Formation                              | 1993.IR350B   | 4/24/1997  | 8/1/2000   | 6,095,134  | 6,095,134 | Temco; Aktiv-Dry | The Board of Regents of the U of C     |
| Wavelet Filtering of Sodar Signals   | 1999.10070B   | 7/1/1999   | 8/1/2000   | 09/345,425 | 6,097,669 |                  | not shown (co-owner, Dept of Commerce) |
| Method and Apparatus for an Autonomous Cloud Radar                             | 1996.7062B    | 5/8/1998   | 8/1/2000   | 09/074,663 | 6,098,018 |                  | USA (co-owner, Dept of Commerce)       |
| VCSEL based surface tracking system  | 1997.8092B    | 10/5/1998  | 9/5/2000   | 09/166,287 | 6,115,111 | Cytac            | UTC recorded but not shown             |
| A scatterometer with an adaptable spatial resolution                           | 1998.9077B    | 3/18/1999  | 10/24/2000 | 09/271,327 | 6,137,433 |                  | USA (co-owner, Dept of Commerce)       |
| Liquid crystal phase modulator using cholesteric circular polarizers           | 1993.IR302B   | 5/5/1997   | 10/31/2000 | 08/851,521 | 6,141,069 |                  | University Technology Corporation      |
| Novel DT-diaphorase directed antitumor agents                                  | 1997.8011H    | 5/24/1999  | 12/5/2000  | 09/317,906 | 6,156,744 |                  | Cancer Research Campaign;              |
| Method and apparatus for determining the state of fouling/cleaning of          | 1997.8097B    | 7/21/1999  | 12/19/2000 | 09/358,733 | 6,161,435 |                  | University Technology Corporation      |
| Homogenous human papillomavirus capsomere containing compositions;             | 1996.7100H    | 7/2/1998   | 12/26/2000 | 09/109,036 | 6,165,471 |                  | University of Colorado; University     |

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|--|-----------------|------------|------------|------------|-----------|-----------|------------------------------------|
| Telomerase Catalytic Subunit   | 1996.7094B      | 11/19/1997 | 12/26/2000 | 6,166,178  | 6,166,178 | Geron     | University Technology Corporation; |
| Damped Superconducting Coil System Having a Multiturn, Planar Geometry     | 1996.050.7050 D | 8/13/1998  | 1/2/2001   | 09/133,470 | 6,169,397 |           | University Technology Corp;NIST    |
| A comb-generating optical cavity that includes an optical amplifier and an | 1997.8020B      | 1/13/1999  | 3/13/2001  | 09/229,436 | 6,201,638 |           | University Technology Corporation; |
| Method for bandwidth efficient multiple access wireless communications     | 1996.7043B      | 3/18/1998  | 4/17/2001  | 09/040,783 | 6,219,341 |           | University Technology Corporation  |
| Pixel Buffer Circuit for Implementing Improved Methods of Displaying Grey- | 1994.IR460B     | 12/10/1998 | 5/1/2001   |            | 6,225,991 | KAJ       | The Regents of the U of C          |
|  | 1996.7060H      | 6/12/1998  | 5/15/2001  | 09/097,212 | 6,232,119 |           | University Technology Corporation  |
| Apparatus and method for displaying grey-scale or color images from binary | 1994.IR460B     | 10/15/1997 | 6/5/2001   |            | 6,243,072 | KAJ       | Regents of the U of C              |
| Neural transplantation for treating neurological disease                   | 1996.7037H      | 6/17/1998  | 7/3/2001   | 09/099,121 | 6,254,865 |           | University Technology Corporation  |
| TRC8, a gene related to the hedgehog receptor, patched                     | 1997.8062H      | 3/12/1999  | 7/31/2001  | 09/268,140 | 6,268,176 |           | University Technology Corporation  |
| Novel thermophilic polymerase III holoenzyme                               | 1996.7027H      | 9/12/1997  | 5/29/2001  | 6,283,905  | 6,283,905 | Replidyne | University Technology Corporation  |
| Pixel Buffer Circuit for Implementing Improved Methods of Displaying Grey- | 1994.IR460B     | 7/21/1998  | 9/25/2001  |            | 6,295,054 | KAJ       | The Regents of the University of   |
| Microparticles of Lactide-Co-Glycolide Copolymers and Methods of Making    | 1998.9019B      | 12/9/2000  | 11/20/2001 | 09/501,003 | 6,319,521 |           | University Technology Corporation  |
| Use of Fas Ligand to Suppress T-Lymphocyte-Mediated Immune                 | 1993.IR377H     | 5/29/1998  | 12/4/2001  |            | 6,325,999 | Ceres     | University Technology Corporation  |
| Photolysis System for Fast-Response NO2 Measurements and Method            | 1999.10069B     | 6/26/2000  | 2/12/2002  | 09/603,998 | 6,346,419 |           | USA (co-owner, Dept of Commerce)   |
| Varicella-Zoster Virus Antigen   | 1990.RC30H      |            | 1/30/2001  | 08/469,191 | 6,180,369 | RCT       | RCT                                |
|  |                 |            |            |            | B1        |           |                                    |

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|--|---------------|-----------|------------|-----------------|-----------------|----------|---|
| Method for identifying adrenergic receptor antagonists having good       | 1996.7076H    | 3/25/1998 | 3/20/2001  | 6,203,776<br>B1 | 6,203,776<br>B1 | Myogen   | University<br>Technology<br>Corporation |
| Transgenic Model and Treatment for Heart Disease                         | 1995.6077H    | 4/1/1998  | 4/17/2001  | 6,218,597<br>B1 | 6,218,597<br>B1 | Myogen   | University<br>Technology<br>Corporation |
| RNA channels in biological membranes                                     | 1997.8080B    | 5/20/1999 | 5/1/2001   | 09/315,886      | 6,225,063<br>B1 |          | University<br>Technology<br>Corporation |
| RAS suppressor SUR-5   | 1996.7056B    | 5/6/1999  | 5/1/2001   | 09/307,265      | 6,225,456<br>B1 |          | University<br>Technology<br>Corporation |
| PKC inhibiting compounds and methods of using same to treat vascular and | 1998.9061H    | 4/21/2000 | 5/8/2001   | 09/557,038      | 6,228,843<br>B1 |          | University<br>Technology<br>Corporation |
| Adenoviral mediated gene transfer into lymphocytes                       | 1997.8066H    | 3/19/1999 | 6/12/2001  | 09/272,496      | 6,245,966<br>B1 |          | University<br>Technology<br>Corporation |
| Superconductor Reading & Writing Heads                                   | 1992.FD15B    |           | 11/20/1990 |                 | RE35,212        |          | Regents of the<br>U of C                |

Schedule 1.2(c)(i)  
Issued Patents  
Foreign Issued Patents

| Patent Title  | Disclosure No | File Date  | Issue Date | Pat Ser No | Patent No   | Licensee       | Assignee |
|---|---------------|------------|------------|------------|-------------|----------------|----------|
| Use of Antioxidant Agents to Treat Cholestatic Liver Disease            | 1995.6007     | 1/15/1997  | 1/25/2001  | 15329/97   | 724620      |                |          |
| Treatment and prevention of adverse effects of reactive oxygen          | 1995.6028H    | 7/2/1997   | 3/23/2000  | 713754     | 713754      |                |          |
| Anti-cancer aldehyde conjugate drugs with enhanced cytotoxicity:        | 1995.6092B    | 3/19/1998  | 1/3/2002   | 67654/98   | 738263      |                |          |
| Treatment and prevention of the adverse effects of reactive oxygen      | 1995.6028H    | 2/7/1997   | 8/27/2001  | 199800665  | 1800        |                |          |
| Method of treating heart failure  | 1996.7080H    |            | 7/19/2001  | 81740/98   | 731656      |                |          |
| Biological Denitrification of Water                                     | 1993.IR327B   | 10/1/1997  | 4/29/2001  | 125288     | 125288      |                |          |
| Apparatus & Method for Estimating Range (Taiwan)                        | 1993.IR334B   | 9/27/1997  | 6/23/2000  | 86114059   | 112310      | CDM            |          |
| Use of fas ligand to suppress lymphocyte-mediated immune                | 1993.IR377H   | 5/26/1995  | 4/20/2000  | 26535/95   | 714674      | Ceres          |          |
| Spherical mirror grazing incidence option/ High resolution X-ray optics | 1993.IR324B   | 5/11/1995  | 8/12/1998  | 95921299.4 | EP0708970B1 | Focused X-rays |          |
| Method for detecting and distinguishing cobalamine and folic            | 1985.CU280H   | 11/20/1987 | 11/7/1996  | 6-88530    | 2579434     |                | CTI      |
| Assay for sulfhydryl amino acids and methods for detecting and          | 1985.CU280H   | 11/20/1987 | 10/24/1996 | 62-292190  | 2574339     |                | CTI      |
| Method for quantifying sulfhydryl amino acid species                    | 1985.CU280H   | 11/20/1987 | 11/7/1996  | 7-171988   | 2577878     |                | CTI      |
| Assay for sulfhydryl amino acids and methods for detecting and          | 1985.CU280H   | 11/17/1987 | 3/17/1993  | 87310138   | 269352      |                | CTI      |
| Assay for sulfhydryl amino acids and methods for detecting and          | 1985.CU280H   | 11/17/1987 | 3/17/1993  | 87310138   | 269352      |                | CTI      |
| Method for detecting cobalamin and folic acid deficiency                | 1985.CU280H   | 11/17/1987 | 6/12/1996  | 91203329.7 | 486118      |                | CTI      |
| Method for detecting cobalamin and folic acid deficiency                | 1985.CU280H   | 11/17/1987 | 6/12/1996  | 91203329.7 | 486118      |                | CTI      |
| Method for detecting cobalamin and folic acid deficiency                | 1985.CU280H   | 11/17/1987 | 4/23/1999  | 98107047.1 | HK1007799   |                | CTI      |
| Methods of detecting picornaviruses in biological fluids                | 1984.CU329H   | 3/26/1990  | 1/7/1998   | 90907902.2 | 465603      |                | CTI      |
| Methods of detecting picornaviruses in biological fluids                | 1984.CU329H   | 3/26/1990  | 1/7/1998   | 90907902.2 | 465603      |                | CTI      |
| Methods of detecting picornaviruses in biological fluids                | 1984.CU329H   | 3/26/1990  | 1/7/1998   | 90907902.2 | 465603      |                | CTI      |
| Methods of detecting picornaviruses in biological fluids                | 1984.CU329H   | 3/26/1990  | 1/7/1998   | 90907902.2 | 465603      |                | CTI      |
| Methods of detecting picornaviruses in biological fluids                | 1984.CU329H   | 3/26/1990  | 1/7/1998   | 90907902.2 | 465603      |                | CTI      |
| Methods of detecting picornaviruses in biological fluids                | 1984.CU329H   | 3/26/1990  | 1/7/1998   | 90907902.2 | 465603      |                | CTI      |

Schedule 1.2(c)(i)  
Issued Patents  
Foreign Issued Patents

| Patent Title  | Disclosure No | File Date | Issue Date | Pat Ser No | Patent No | Licensee | Assignee |
|---|---------------|-----------|------------|------------|-----------|----------|----------|
| Protection of plants against frost injury using ice nucleation- | 1981.CU111B   | 8/4/1982  | 1/22/1985  | 408,673    | 1,181,354 |          | CTI      |
| Preparation of samples for vitamin B12 and/or folate assay      | 1977.CU59H    | 4/5/1982  | 7/23/1986  | 82901475.2 | 76314     |          | CTI      |

Schedule 1.2(c)(ii)  
Pending Patent Applications  
U.S. Pending Applications

| Patent Title   | Disclosure No. | File Date  | Pat Serial No | Licensee  | Assignee |
|--|----------------|------------|---------------|-----------|----------|
| RNA ribozyme polymerases, dephosphorylases, restriction endonucleases and methods                  | 1986.CU274B    | 1/9/1998   | 09/005,325    | RPI       | CTI      |
| Product and Process for Membrane and Soluble Polypeptide Segregation                               | 1993.IR348B    | 8/10/1999  | 09/370,961    |           |          |
| Methods for Identifying Pharmacologicals for the Treating of Heart Failure                         | 1994.IR438H    | 3/3/1998   | 09/050,344    |           |          |
| Plasminogen activator as an anti-inflammatory agent  | 1994.IR447     | 7/29/1999  | 09/355,522    |           |          |
| Anti-cancer drug aldehyde conjugate drugs with enhanced cytotoxicity: compounds, compositions and  | 1995.6092B     | 2/27/1998  | 09/032,424    |           |          |
| Silylating Reagents for Use as Protecting Groups in Oligonucleotide Synthesis                      | 1995.IR439B    | 12/19/1997 | 08/994,823    | Dharmacon |          |
| Metabolic therapy directed at electron transport   | 1996.7009H     | 10/27/1998 | 09/179,810    |           |          |
| Neurotoxin Therapy   | 1996.7004H     | 1/17/2000  | 09/463,040    | Allergan  |          |
| Use of Neurotoxin Therapy for Treatment of Urologic and Related Disorders                          | 1996.7004H     | 10/15/2001 | 09/978,982    | Allergan  |          |
| Assays for Identifying Anti-Metastatic and Neurite-Promoting Agents and Uses Thereof               | 1996.7082H     | 4/18/2000  | 09/463,259    |           |          |
| RAS Suppressor SUR-8   | 1996.7109B     | 5/19/1998  | 09/081,149    |           |          |
| Method and Apparatus for Three-Dimensional Reconstruction of Coronary Vessels from Angiographic    | 1997.8012H     | 11/20/1999 | 09/444,138    |           |          |
| Multi-wavelength cross-correlator for ultrashort radiation pulses                                  | 1997.8025B     | 12/18/1998 | 09/219,497    |           |          |
| Alpha-7 Nicotine Receptors   | 1997.8031H     | 10/23/1997 | 08/956,518    |           |          |
| Sustained release composition including amorphous polymer  | 1997.8045B     | 10/18/1999 | 09/403,412    |           |          |
| Sustained-Release Composition Including Amorphous Polymer  | 1997.8045B     | 6/7/2001   | 09/877,330    |           |          |
| TRC8, a gene related to the hedgehog receptor, patched   | 1997.8062H     | 7/2/2001   | 09/898,533    |           |          |
| Sugar free Fibroblast Growth Factor  | 1997.8046B     | 8/19/1999  | 09/377,875    |           |          |
| High pressure refolding of protein aggregates and inclusion bodies                                 | 1997.8068H     | 7/9/1999   | 09/350,327    |           |          |
| Tunable nanomasks for pattern transfer and nanocluster array formation                             | 1997.8081B     | 8/18/2000  | 09/642,135    |           |          |
| Process for the Removal of Carbonyl Sulfide from Liquid Petroleum Gas                              | 1998.9007B     | 1/31/2001  | 09/762,132    |           |          |
| Compositions and Methods for Administering Chemotherapeutic Agents                                 | 1998.9008H     | 11/20/2000 | 09/717,486    |           |          |
| Low temperature oxidation using supported molten salt catalysts                                    | 1998.9010B     | 5/19/2000  | 09/574,766    |           |          |
| Inhibitors of serine protease activity, methods and compositions for treatment of viral infections | 1998.9014H     | 3/3/2000   | 09/518,098    |           |          |



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Pending Patent Applications  
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| Patent Title   | Disclosure No. | File Date  | Pat Serial No | Licensee | Assignee |
|--|----------------|------------|---------------|----------|----------|
| Preparation and use of photopolymerized microparticles   | 1998.9020B     | 11/30/1999 | 09/451,481    |          |          |
| Methods and compositions useful for inhibiting apoptosis   | 1998.9023H     | 3/3/2000   | 09/518,081    |          |          |
| Inhibitors of serine protease activity, methods and compositions for treatment of nitric oxide-induced | 1998.9023H     | 3/3/2000   | 09/518,097    |          |          |
| Histidine kinases of aspergillus and other fungal species, related compositions, and methods of use    | 1998.9027H     | 8/9/2000   | 09/636,728    |          |          |
| A solid material comprising a thin metal film on its surface and methods for producing the same        | 1998.9035B     | 3/10/2000  | 09/523,491    |          |          |
| Inhibitors of serine protease activity, methods and compositions for treatment of herpes viruses       | 1998.9038H     | 3/3/2000   | 09/518,076    |          |          |
| Refractive index based detector system for liquid chromatography                                       | 1998.9050B     | 8/3/1999   | 09/368,310    |          |          |
| Isomorphously Substituted Molecular Sieve Membranes  | 1998.9055B     | 1/18/2001  | 09/766,307    |          |          |
| Ordered arrays of nanostructures   | 1998.9068B     | 5/30/2000  | 09/583,209    |          |          |
| Atomic Layer Controlled Deposition on Particle Surfaces  | 1998.9069B     | 6/21/2000  | 09/602,602    |          |          |
| Method for Modulation of Cell Phenotype  | 1998.9075H     | 10/18/1999 | 09/420,080    |          |          |
| Warning Hazard Avoidance System and Method Using Dual Polarization Airborne Radar                      | 1998.9076B     | 3/24/2000  | 09/534,069    |          |          |
| Apparatus and method for controlling pore size in polymeric membranes and thin films                   | 1999.10009B    | 6/16/2000  | 09/595,213    |          |          |
| Non-Uniform Porosity Tissue Implant  | 1999.10028B    | 9/21/2001  | 09/857,829    |          |          |
| Compositions and methods for regulating metabolism in plants   | 1999.10031C    | 3/30/2001  | 09/823,886    |          |          |
| Cavity Ring-down Spectroscopy System Using Differential Heterodyne Detection                           | 1999.10035B    | 1/12/2001  | 09/758,729    |          |          |
| Compositions and methods for promoting wound healing   | 1999.10040C    | 3/30/2001  | 09/823,851    |          |          |
| Rapid Conversion of Metal-Containing Compounds To Form Metals or Metal-Oxides                          | 1999.10045B    | 2/22/2001  | 09/791,275    |          |          |
| Human FAT-2 (HFAT2)  | 1999.10047H    | 7/21/1999  | 09/358,636    |          |          |
| Selective toxin expression in angiogenic endothelial cells [rec. 1]                                    | 1999.10059H    | 11/3/2000  | 09/704,824    |          |          |
| Method for Forming SiOx by Chemical Vapor Deposition   | 1999.10068B    | 6/29/2001  | 09/896,955    |          |          |
| Hydroxycarborane photoresists and process for using same in bilayer thin film imaging lithography      | 1999.10068B    | 1/18/2000  | 09/507,522    |          |          |
| Progesterone receptor-regulated gene expression and methods related thereto                            | 1999.10091H    | 3/21/2001  | 09/814,915    |          |          |
| Intermediate transfer layers for nanoscale pattern transfer and nanofeature formation                  | 2001.003B      | 12/28/2000 | 09/750,522    |          |          |

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Pending Patent Applications  
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| Patent Title  | Disclosure No. | File Date  | Pat Serial No | Licensee              | Assignee |
|---|----------------|------------|---------------|-----------------------|----------|
| Inhibitors of Viral Infection   | 2001.021B      |            |               |                       |          |
| Atomic structure and interaction sites between human CR2/CD21 with C3d and uses in rational drug-design | 2001.035H      | 4/11/2001  | 09/834,309    |                       |          |
| Ultrashort Pulse Amplification in Cryogenically Cooled Amplifiers                                       | 2001.038B      | 2/1/2002   |               |                       |          |
| Protection-of-Telomere-1 (POT-1) Protein and Encoding Polynucleotides                                   | 2001.044B      | 3/26/2001  | 09/816,248    |                       |          |
| Datapath Design Methodology and Routing Apparatus   | 2001.053B      | 3/29/2001  | 09/820,864    |                       |          |
| A method for isolation of prostatic epithelial cells from semen   | 2001.058H      |            | 09/855,798    |                       |          |
| Operational bright-band snow level detection using doppler radar  | 2001.069B      | 8/30/2001  | 09/941,838    |                       |          |
| Ultrahigh Temperature Micro-Glow Plug   | 2002.037B      | 11/7/2001  | 10/010,533    |                       |          |
| Sub-15-femtosecond active synchronization of two passively mode-locked Ti-sapphire oscillators          | 2001.061B      | 3/29/2002  |               |                       |          |
| Surface Plasmon Devices   | 2002.093B      | 3/20/2002  |               |                       |          |
| Transgenic model for heart failure  | 1996.7022      | 9/26/1997  | 08/838,105    | Myogen                |          |
| Split element liquid crystal tunable optical filter   | 1992.FD271B    | 6/11/1996  | 08/661,498    | KAJ, LLC              |          |
| Methods and Apparatus for Fine Particle Formation   | 1993.1R350B    | 8/21/2000  | 09/598,570    | Aktiv-Dry             |          |
| Viral Vectors Encoding Apoptosis-Inducing Proteins and Methods for Making and Using the Same            | 1993.1R377H    | 12/8/1999  | 09/456,357    | Ceres has first right |          |
| Yeast-Dendritic Cell Vaccines and Uses Thereof"   | 1993.1R392H    | 11/15/2001 | 09/991,363    | Ceres has first right |          |
| Apparatus and method for displaying grey-scale or color images from binary images                       | 1994.1R460B    | 3/17/1997  | 08/823,875    | KAJ                   |          |
| Pixel Buffer Circuit for Implementing Improved Methods of Displaying Grey-Scale or Color Images         | 1994.1R460B    | 7/21/1998  | 09/119,976    | KAJ                   |          |
| Temperature Sensitive Gel for Sustained Delivery of Protein Drugs                                       | 1995.6030H     | 1/15/1999  | 09/232,288    | RxKinetix             |          |
| Biocompatible Cationic Detergents and Uses Therefor   | 1995.6075H     | 8/7/2001   | 09/924,898    | RxKinetix             |          |
| Methods of Analysis and Evaluation of the Semantic Content of a Writing                                 | 1996.7081B     | 7/23/1998  | 09/121,450    | KAT                   |          |
| Three-Color Imaging in Each Pixel for Increased Resolution  | 1998.9048B     | 8/28/2000  | 09/649,118    | CDM                   |          |
| Method and Apparatus for Increasing Resolution in Digital Imaging Systems by Offsetting Pixels          | 1998.9065B     | 6/16/2000  | 09/596,153    | CDM                   |          |
| High-Speed Confocal Microscope  | 1999.10033B    | 3/21/2001  | 09/814,197    | CDM                   |          |
| Extended depth of focus for human vision  | 1998.10043B    | 9/15/2000  | 09/663,863    | CDM                   |          |

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Pending Patent Applications  
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| Patent Title   | Disclosure No. | File Date  | Pat Serial No    | Licensee  | Assignee |
|--|----------------|------------|------------------|-----------|----------|
| Metal-Oxide Electron Tunneling Device for Solar Energy Conversion                              | 1999.10088B    | 5/19/2001  | 09/860,988       | Phiar     |          |
| High Speed Electron Tunneling Device and Applications  | 2001.077B      | 5/19/2001  | 09/860,972       | Phiar     |          |
| Surface Plasmon Devices  | 200.093B       | 3/20/2002  | not assigned yet | Phiar     |          |
| Methods and Apparatus for Fine Particle Formation  | 1993.IR350B    | 5/16/2001  | 09/858,998       | Aktiv-Dry |          |
| Novel Thermophilic Polymerase III Holoenzyme   | 1996.7027H     | 9/11/1998  | 09/151,888       | Replidyne |          |
| Diagnosis and Treatment of Myocardial Failure  | 1996.7077H     | 4/25/2000  | 09/558,472       | Myogen    |          |
| Diagnosis and Treatment of Myocardial Failure  | 1996.7077H     | 10/1/2001  | 09/969,086       | Myogen    |          |
| Novel Telomerase   | 1996.7094B     |            | 08/854,050       | Geron     |          |
| Novel Telomerase   | 1996.7094B     | 10/29/1999 | 09/430,323       | Geron     |          |
| Human Telomerase Catalytic Subunit   | 1997.8015B     | 11/2/1999  | 09/432,503       | Geron     |          |
| Stable protein formulations using supercritical fluid-assisted nebulization                    | 1998.9070B     | 8/9/2000   | 09/591,213       | Aktiv Dry |          |
| Carcinoembryonic Antigen Cell Adhesion Molecule 1 (CEACAM1) Structure and Uses Thereof in Drug | 2002.073H      | 4/5/2002   | not assigned yet |           |          |

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U. S. Provisional Patent Applications

| Patent Title  | Disclosure No | File Date  | Pat Ser No |
|---|---------------|------------|------------|
| Controlled Surface Tension or Shrinkage Assembly of 3D MEMS   | 1999.10071B   | 5/18/2001  | 60/292,137 |
| Antioxidant Solution for Hepatic Steatosis  | 2001.029H     | 5/17/2001  | 60/292,142 |
| System and method for determining soil swelling potential using reflectance spectroscopy                              | 2001.060B     | 5/24/2001  | 60/293,253 |
| Allergen Functional IgE Test  | 2001.057H     | 5/29/2001  | 60/294,465 |
| Functional Allergen Detection Test  | 2001.057H     | 5/29/2001  | 60/294,466 |
| Micro Axial Flow Fans   | 2001.020B     | 6/4/2001   | 60/295,749 |
| Methods for prediction of response of virus infections to interferon therapy  | 2001.047H     | 6/8/2001   | 60/296,841 |
| Structural Basis of Quorum Sensing Signal Generation and Therapeutic Agents Derived Therefrom                         | 2001.010H     | 7/5/2001   | 60/303,449 |
|   | 2001.079B     | 7/10/2001  | 60/304,227 |
| Insulating and Functionalizing Fine Metal-Containing Particles with Conformal Ultra-thin Films                        | 2002.001B     | 7/18/2001  | 60/306,519 |
| Method for the Deposition of an Inorganic Film on an Organic Polymer Surface Using Atomic Layer Deposition Techniques | 2002.002B     | 7/18/2001  | 60/306,521 |
| Expression profiling in the intact human heart  | 2002.026H     | 9/11/2001  | 60/318,864 |
| Digital Controller for High-Frequency Switching Power Supplies  | 2002.062B     | 12/7/2001  | 60/338,712 |
| Automated Foot-Shock Sensitivity Scoring Method   | 2002.027H     | 11/19/2001 | 60/339,613 |
| Resonant Micro Actuators  | 2001.036B     | 11/9/2001  | 60/345,047 |

Schedule 1.2(c)(ii) Patent Applications

U. S. Provisional Patent Applications

| Patent Title  | Disclosure No | File Date  | Pat Ser No              |
|---|---------------|------------|-------------------------|
| Adaptive Voltage Regulator for Digital VLSI Processors  | 2002.051B     | 11/9/2001  | 60/345,127              |
| Digitally Positioned Micromirror(s) for Optical Applications  | 2002.056B     | 1/18/2002  | 60/350,754              |
| Method and Apparatus for Quantifying Membrane and Thin Film Morphology  | 2002.003B     | 2/8/2002   | 60/354,865              |
| Controlling grey Component in a Color Image Using Pareto-Optimal Color Space Transformation   | 2002.038B     | 1/25/2002  | 60/362,060              |
| Solar-Thermal Fluid-Wall Reaction Processing (Discl. Title)   | 2002.082B     | 3/7/2002   | 60/362,563              |
| Power Converters Utilizing Matrices of Improved Switch Cells  | 2001.073B     | 4/12/2002  | 60/372,226              |
| Patent filed by NIST (co-owner)   | 2001.074B     | 7/2/2001   |                         |
| Patent filed by NIST (co-owner)   | 2001.075B     | 7/2/2001   |                         |
| Methods and Products to Lower, Increase, or Remove Cell Surface Costimulatory Molecules by Altering Levels of Intracellular Reactive Oxygen Intermediates | 2002.030C     |            |                         |
| Cantilevered Micro-Structure and Technique for Vertical Displacement Response of a Free-End   | 2002.039B     | 11/2/2001  |                         |
|   | 2002.041B     | 12/17/2001 |                         |
| MEMS-Adjusted Laser-to-Fiber Coupling Module for Optical Communications   | 2002.055B     | 1/19/2002  |                         |
| Variable Speed Wind Power System with Improved Energy Capture via Multilevel Conversion (Discl. Title)  | 2002.057B     |            |                         |
| Photopolymerizations of Degradable Thiol-Ene Polymers   | 2001.028B     | 10/20/2001 | number not assigned yet |
| Genetically-engineered cyclic nucleotide-gated ion channels as sensors for intracellular cyclic AMP   | 2001.042H     | 11/16/2001 | number not assigned yet |

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| Patent Title  | Disclosure No | File Date  | Pat Ser No    | Assignee |
|---|---------------|------------|---------------|----------|
| Orthoester Reagents for Use as Protecting Groups in Oligonucleotide Synthesis     | 1995.IR439    |            | 503238/1997   |          |
| Liquid crystal achromatic compound retarder                                       | 1992.IR298B   | 10/7/1997  | 530,410/1996  |          |
| Extended Depth of Field Optical Systems   | 1993.IR342B   | 2/5/1996   | 1997-705403   |          |
| Extended Depth of Field Optical Systems   | 1993.IR342B   | 8/1/1997   | 8-523771      |          |
| Use of Fas Ligand to Suppress Lymphocyte-Mediated Immune                          | 1993.IR377H   | 5/26/1995  | 2189778       |          |
| Use of Fas Ligand   | 1993.IR377H   | 5/26/1995  | 95921459.4    |          |
| Use of Fas Ligand   | 1993.IR377H   | 5/26/1995  | 8-501092      |          |
| Yeast based delivery vehicles   | 1993.IR392H   | 11/15/1995 | 2,205,379     |          |
| Yeast based delivery vehicles   | 1993.IR392H   | 11/15/1995 | 95941401.2    |          |
| Yeast based delivery vehicles   | 1993.IR392H   | 11/15/1995 | 8-516320      |          |
| Apparatus and method for displaying grey-scale or color images from binary images | 1994.IR460B   | 7/16/1998  | PRC 9619399.9 |          |
| Temperature Sensitive Gel for Sustained Delivery of Protein Drugs                 | 1995.6030H    |            | 97935238.2    |          |
| Temperature Sensitive Gel for Sustained Delivery of Protein Drugs                 | 1995.6030H    |            |               |          |
| Anti-aliasing Apparatus and Methods for Optical Imaging                           | 1997.8055B    | 1/6/1999   | 99902067      |          |

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|   |             |           |           |  |
|---|-------------|-----------|-----------|--|
| Anti-aliasing apparatus and methods for optical imaging | 1997.8055B  | 7/10/2000 |           |  |
| Spherical mirror grazing incidence x-ray optics         | 1993.IR324B | 1/14/1997 | 500453/97 |  |
| Spherical Mirror Grazing Incidence X-Ray Optics         | 1993.IR324B |           | 529906/95 |  |