

**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, a body corporate
Street Address:	1800 Grant Street
Internal Address:	8th Floor
City:	Denver
State/Country:	COLORADO
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**PROPERTY NUMBERS Total: 2**

Property Type	Number
Patent Number:	7554731
Patent Number:	7554732

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NAME OF SUBMITTER:	Curtis A. Vock

Total Attachments: 30  
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**PATENT  
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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:**

**THE REGENTS OF THE UNIVERSITY  
OF COLORADO**, a body corporate

By:   
Its: President

**ASSIGNOR:**

**UNIVERSITY TECHNOLOGY  
CORPORATION**, a Colorado nonprofit  
corporation

By:   
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)(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.FD68B	10/27/1989	12/11/1990		4,977,433		U OF C FOUNDATION

**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
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- 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 generation	1987.FD26B	5/11/1990	7/21/1992		5,132,826	ColorLink	U of C Foundation

**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
Fiber Optic Communication Method and Apparatus	1990.FD134B	8/6/1991	8/4/1992	741,003	5,136,666		U of C Foundation
Media for Normal Human Muscle Satellite Cells	1987.FD28B	11/1/1988	9/1/1992	265,785	5,143,842		U of C Foundation
Process for preparing polynucleotides	1979.CU112B	3/31/1986	10/6/1992	846,453	5,153,319		CTI
Smectic Liquid Crystal Devices Using SSFLC and Electroclinic Effect Based	1989.FD111B	12/27/1990	12/1/1992		5,168,381	Displaytec h	University Research Corp.
Optically addressed spatial light modulator	1989.FD140B	6/9/1989	1/12/1993		5,178,445	Displaytec h	Not shown
Ferroelectric liquid crystal compounds and compositions	1989.FD120B	6/1/1989	1/12/1993		5,178,793	Displaytec h	University Research Corp.
Site Specific Cleavage of Single-Stranded DNA	1990.FD116B	3/21/1990	1/19/1993	496,852	5,180,818	RPI	U of C Foundation
as chromatography/mass spectrometry determination of ascorbate and oxidation	1990.FD128H	2/19/1992	5/18/1993	838,356	5,212,096		U of C Foundation
Nucleoside thiophosphoramidites	1987.CU311B	1/22/1991	6/8/1993	07/643,381	5,218,103		CTI
Surface stabilized ferroelectric liquid crystal devices	1982.CU181B	1/27/1992	7/13/1993	07/826,473	5,227,905		CTI
Chiral smectic liquid crystal polarization interference filters	1987.FD26B	5/15/1992	7/27/1993		5,231,521	ColorLink	U of C Foundation
Chiral smectic liquid crystal polarization interference filters	1993.FD175B	5/15/1992	9/7/1993	884,644	5,243,455		U of C Foundation
Chiral smectic liquid crystal polarization interference filters	1987.FD26B	5/15/1992	9/7/1993		5,243,455	ColorLink	U of C Foundation
Method of Fracturing Wells Using Propellants	1991.FD196D	4/14/1992	3/22/1994	07/866,627	5,295,545	Propellant Fracturing	U of C Foundation
Methods and apparatus for drug delivery using supercritical solutions	1993.IR350B	3/6/1992	4/12/1994		5,301,664	Temco; Aktiv-Dry	Not shown



**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
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		? Belongs to UPI
Media for Normal Human Muscle Satellite Cells	1987.FD28B	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 (reassigned from RCT)

## 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
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

**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
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- -ynthase	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

**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
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	08/316,5521	5,561,287		Board of Regents of U of C
Systemic Evolution of Ligands by Exponential Enrichment: Soluton	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

**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
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
Asymetrical 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	11/11/1996	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.

**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
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

## 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
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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Patent Title	Disclosure No	File Date	Issue Date	Pat Ser No	Pat No	Licensee	Assignee
DES-ARG9-BK Antagonists	1995.IR472H	9/8/1995	11/10/1998		5,834,431		U of C; UTC (co-owner Cortech re-
Cytolytic bradykinin antagonists	1994.IR470H	9/8/1995	12/15/1998	08/526,065	5,849,863		U of C; UTC (co-owner 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 Contollers for High-Power Factor Rectification	1993.IR367B	1/12/1995	2/2/1999	08/371,822	5,867,379		University of Colorado
Travel 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-



**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
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.
Order 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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Issued Patents  
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Patent Title	Disclosure No	File Date	Issue Date	Pat Ser No	Pat No	Licensee	Assignee
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 feedback shift 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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Issued Patents  
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Patent Title	Disclosure No	File Date	Issue Date	Pat Ser No	Pat No	Licensee	Assignee
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
TlBiBaCaCuO 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	Cytec	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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## Issued Patents

## U.S. Issued Patents

Patent Title	Disclosure No	File Date	Issue Date	Pat Ser No	Pat No	Licensee	Assignee
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	2/9/2000	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 B1	RCT	RCT

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Patent Title	Disclosure No	File Date	Issue Date	Pat Ser No	Pat No	Licensee	Assignee
Method for identifying adrenergic receptor antagonists having good	1996.7076H	3/25/1998	3/20/2001	6,203,776 B1	6,203,776 B1	Myogen	University Technology Corporation
Transgenic Model and Treatment for Heart Disease	1995.6077H	4/1/1998	4/17/2001	6,218,597 B1	6,218,597 B1	Myogen	University Technology Corporation
RNA channels in biological membranes	1997.8080B	5/20/1999	5/1/2001	09/315,886	6,225,063 B1		University Technology Corporation
RAS suppressor SUR-5	1996.7056B	5/6/1999	5/1/2001	09/307,265	6,225,456 B1		University Technology 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 B1		University Technology Corporation
Adenoviral mediated gene transfer into lymphocytes	1997.8066H	3/19/1999	6/12/2001	09/272,496	6,245,966 B1		University Technology Corporation
Superconductor Reading & Writing Heads	1992.FD15B		11/20/1990		RE35,212		Regents of the U of C

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**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

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**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	09/006,325	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.IR436H	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	1995.6082B	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	08/956,516		
Sustained release composition including amorphous polymer	1997.8045B	10/19/1999	09/403,412		
Sustained-Release Composition Including Amorphous Polymer	1997.8045B	6/7/2001	09/877,330		
TRCB, 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		



**Schedule 1.2(c)(II)  
Pending Patent Applications  
U.S. Pending Applications**

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	09/388,310		
Isomorphously Substituted Molecular Sieve Membranes	1998.9055B	1/19/2001	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	09/420,060		
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	1998.10009B	6/16/2000	09/595,213		
Non-Uniform Porosity Tissue Implant	1999.10028B	9/21/2001	09/957,829		
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	09/759,729		
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	1999.10088B	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  
U.S. Pending Applications**

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		09/855,708		
Operational bright-band snow level detection using doppler radar	2001.069B	8/30/2001	09/941,836		
Ultrahigh Temperature Micro-Glow Plug	2002.037B	11/7/2001	10/010,633		
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	08/938,105	Myogen	
Split element liquid crystal tunable optical filter	1992.FD271B	6/11/1998	08/661,498	KAJ, LLC	
Methods and Apparatus for Fine Particle Formation	1993.IR350B	6/21/2000	09/598,570	Aktiv-Dry	
Viral Vectors Encoding Apoptosis-Inducing Proteins and Methods for Making and Using the Same	1993.IR377H	12/8/1999	09/456,357	Ceres has first right	
Yeast-Dendritic Cell Vaccines and Uses Thereof	1993.IR392H	11/15/2001	09/991,383	Ceres has first right	
Apparatus and method for displaying grey-scale or color images from binary images	1994.IR460B	3/17/1997	08/823,875	KAJ	
Pixel Buffer Circuit for Implementing Improved Methods of Displaying Grey-Scale or Color Images	1994.IR460B	7/21/1998	09/119,976	KAJ	
Temperature Senslve Gel for Sustained Delivery of Protein Drugs	1995.6030H	1/15/1999	09/232,288	RxKinetix	
Biocompatible Cationic Detergents and Uses Thereof	1995.6075H	8/7/2001	09/824,898	RxKinetix	
Methods of Analysis and Evaluation of the Semantic Content of a Writing	1996.7061B	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	1999.10043B	9/15/2000	09/663,883	CDM	

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U.S. Pending Applications**

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	1993.1R350B	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	1998.7077H	4/25/2000	09/558,472	Myogen	
Diagnosis and Treatment of Myocardial Failure	1996.7077H	10/1/2001	09/969,086	Myogen	
Novel Telomerase	1998.7094B		08/854,050	Geron	
Novel Telomerase	1998.7094B	10/29/1999	09/430,323	Geron	
Human Telomerase Catalytic Subunit	1997.8016B	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	60/294,466
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

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**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	60/352,060
Solar-Thermal Fluid-Wall Reaction Processing (Disc. 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 (Disc. 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

**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		

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National Phase foreign applications

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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**National Phase foreign applications**

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	