

05-14-2003



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Name: **The Regents of the University of Colorado**  
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3. Nature of conveyance:  
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Execution Date: **April 30, 2002**

4. Application number(s) or registration number(s):  
If this document is being filed together with a new application, the execution date of the application is:  
A. Patent Application No.(s):  
**09/969,086**  
Additional numbers attached?  Yes  No

B. Patent No.(s):  
**2003 MAY 12 AM-4 47**  
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5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: **Steven L. Highlander**  
**FULBRIGHT & JAWORSKI, L.L.P.**  
**600 Congress Avenue, Suite 2400**  
City: **Austin** State: **Texas** Zip: **78701**

6. Total number of applications and patents involved:  
7. Total fee (37 C.F.R. 3.41)----- \$ **40.00**  
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9. Statement and signature.  
*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.*  
**Steven L. Highlander** 05/08/2003  
Name of Person Signing, Reg. No. 37,642 Signature Date  
Total number of pages including cover sheet, attachments and documents: **8**

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Date: May 8, 2003  
Signature: Steven L. Highlander

25293686.1

**PATENT**  
**REEL: 014050 FRAME: 0413**

**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").

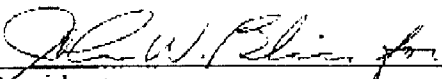
NOW, THEREFORE, for good and valuable consideration paid by Assignee to Assignor, receipt of which is hereby acknowledged, Assignor agrees to sell, assign, transfer and set over and does hereby sell, assign, transfer and set over to Assignee, its entire right, title and interest in and to the Patent 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. Smith  
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 Baudis  
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
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	12/6/1985	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

**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 field propagation between tilted or offset planes	1995.6096B	11/21/1997	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.

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

Patent Title	Disclosure No.	File Date	Pat Serial No	Licenses	Assignee
Metal-Oxide Electron Tunneling Device for Solar Energy Conversion	1999.10088B	5/18/2001	09/850,988	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	8/11/1998	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	09/969,088	Myogen	←
Novel Telomerase	1998.7094B		08/854,050	Geron	
Novel Telomerase	1998.7094B	10/29/1999	08/430,323	Geron	
Human Telomerase Catalytic Subunit	1997.8016B	11/2/1999	09/432,503	Geron	
Stable protein formulations using supercritical fluid-assisted nebulization	1998.9070B	8/8/2000	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		

**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 sulphydryl amino acids and methods for detecting and	1985.CU280H	11/20/1987	10/24/1996	62-292190	2574339		CTI
Method for quantifying sulphydryl amino acid species	1985.CU280H	11/20/1987	11/7/1996	7-171988	2577878		CTI
Assay for sulphydryl amino acids and methods for detecting and	1985.CU280H	11/17/1987	3/17/1993	87310136	269352		CTI
Assay for sulphydryl amino acids and methods for detecting and	1985.CU280H	11/17/1987	3/17/1993	87310136	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