

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

LifeSpex, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☒ Other Notice of Grant of Security Interest in Patents

Execution Date(s): December 1, 2002

2. Name and address of receiving party(ies):

Name: Sam B. Humphries

Internal Address:

Street Address: 7913 Wyoming Court

City: Bloomington State: MN ZIP: 55438

Additional name(s) of receiving party(ies) attached? ☐ Yes ☒ No

4. Application number(s) or patent 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).

5,421,339	6,258,576	6,332,092
5,623,932	6,135,965	6,487,440
5,697,373	6,241,662	5,838,435
6,095,982	5,902,246	
5,612,540	5,699,795	

B. Patent No(s).

09/519,153	60/076,979
08/693,471	08/667,993
09/421,965	08/672,623
60/014,073	

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Barbara A. Wrigley

Internal Address: 3300 Plaza VII Building

Street Address: 45 South Seventh Street

City: Minneapolis State: MN ZIP: 55402

Our File No.: 17073-1

6. Total number of applications and patents involved: 20

7. Total Fee (37 CFR 3.41).....\$800.00.

- ☐ Enclosed  
☒ Authorized to be charged to deposit account  
☒ Authorized to charge any underpayment or credit any overpayment to deposit account.

8. Deposit account number:

50-1901

(Attach duplicate copy of this page if paying by deposit account.)

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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.

Barbara A. Wrigley, Reg. No. 34,950

Name of Person Signing

Signature

March 26, 2003

Date

Total number of pages including cover sheet, attachments, and document: 4

Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

NOTICE  
OF  
GRANT OF SECURITY INTEREST  
IN  
PATENTS

United States Patent and Trademark Office:

Please be advised that pursuant to the Loan Agreement, dated as of December 1, 2002 (the "Loan Agreement"), between Sam B. Humphries ("Lender") and LifeSpex, Inc. ("Borrower"), Borrower has granted to Lender a continuing security interest in and continuing lien upon the patents and patent applications listed in Schedule I hereto.

LIFESPEX, INC.

By: \_\_\_\_\_

Its: \_\_\_\_\_

M467  
CEO & PRESIDENT

**SCHEDULE I  
PATENT RIGHTS  
ISSUED U.S. AND PCT PATENTS**

<b>APPL'N NO.</b>	<b>PATENT NO.</b>	<b>APPL'N DATE</b>	<b>GRANT DATE</b>	<b>TITLE</b>
08/060,432	5,421,339	May 12, 1993	June 6, 1995	Diagnosis of Displasia Using Laser Induced Fluorescence
08/469,396	5,623,932	June 6, 1995	April 29, 1997	Diagnosis of Displasia Using Laser Induced Fluorescence
08/403,446	5,697,373	March 14, 1995	December 16, 1997	Optical Method and Apparatus for the Diagnosis of Cervical Precancers Using Raman and Fluorescence Spectroscopies
				Spectroscopic Method and Apparatus for Optically Detecting Abnormal Mammalian Epithelial Tissue
08/988,840	6,095,982	December 11, 1997	August 1, 2000	Optical Method for the Detection of Cervical Neoplasias Using Fluorescence Spectroscopy
08/412,325	5,612,540	March 31, 1995	March 18, 1997	Diagnostic Method and Apparatus for Cervical Squamous Intraepithelial Lesions in Vitro and in Vivo Using Fluorescence Spectroscopy
08/666,021	6,258,576	June 19, 1996	July 10, 2001	
09/519,153		March 6, 2000		Method and Apparatus for the Characterization of Epithelial Lines Viscus
08/693,471		August 2, 1996		Method and Apparatus for the Characterization of Epithelial Lines Viscus
08/757,116	6,135,965	December 2, 1996	October 24, 2000	Spectroscopic Detection of Cervical Pre-Cancer Using Radial Basis Function Networks
09/175,232	6,241,662	October 20, 1998	June 5, 2001	Acetic Acid as a Signal Enhancing Contrast Agent in Fluorescence Spectroscopy

APPL'N NO.	PATENT NO.	APPL'N DATE	GRANT DATE	TITLE
09/421,965		October 20, 1999		Method and Apparatus for Provablistically Classifying Tissue in Vitro and in Vivo Using Fluorescence Spectroscopy
08/823,044	5,902,246	March 21, 1997	May 11, 1999	Method and Apparatus for Calibrating an Optical Probe
60/014,073		March 26, 1996		Method and Apparatus for Calibrating an Optical Probe
08/415,356	5,699,795	March 31, 1995	December 23, 1997	Optical Probe for the Detection of Cervical Neoplasia Using Fluorescence Spectroscopy and Apparatus Incorporating Same
09/111,174	6,332,092	July 8, 1998	December 18, 2001	Optical Probe Having and Methods for Uniform Light Irradiation and/or Light Collection Over a Volume
09/766,544	6,487,440	January 19, 2001	November 26, 2002	Optical Probe Having and Methods for Diffuse and Uniform Light Irradiation
60/076979		March 5, 1998		Quartz Mixing Section for Optical Probe
08/953,814	5,838,435	October 20, 1997	November 17, 1998	Calibration Method for Spectroscopic Systems
08/667,993		June 19, 1996		Near-Infrared Raman Spectroscopy for In Utero and In Vivo Detection of Cervical PreCancers
08/672,623		June 28, 1996		Spectroscopic Probe for In Vivo Measurement of Raman Signals

PATENT

REEL: 013907 FRAME: 0477

RECORDED: 04/02/2003