

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
Paul S. Liu	11/08/2005
B. Rao Vishnuvajjala	11/08/2005
Kenneth Snader	11/08/2005
David E. Thurston	07/25/2006
Philip W. Howard	07/26/2006
Stephen J. Gregson	07/27/2006

**RECEIVING PARTY DATA**

<b>Name:</b>	Government of the United States of America, represented by the Secretary, Department of Health and Human Services
<b>Street Address:</b>	6011 Executive Boulevard, Suite 325
<b>Internal Address:</b>	Office of Technology Transfer
<b>City:</b>	Rockville
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	20852

<b>Name:</b>	Spirogen, Ltd.
<b>Street Address:</b>	29/39 Brunswick Square
<b>City:</b>	London
<b>State/Country:</b>	UNITED KINGDOM
<b>Postal Code:</b>	WC1N 1AX

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	11129207

**CORRESPONDENCE DATA**

Fax Number: (312)616-5700

CH \$40.00 11129207

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 312-616-5600  
Email: assignments@leydig.com  
Correspondent Name: John Kilyk, Jr.  
Address Line 1: 180 N. Stetson Avenue  
Address Line 2: Two Prudential Plaza, Suite 4900  
Address Line 4: Chicago, ILLINOIS 60601

ATTORNEY DOCKET NUMBER:	235785
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NAME OF SUBMITTER:	John Kilyk, Jr.
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**Total Attachments: 12**

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**PATENT**  
Attorney Docket No. 235785  
DHHS Ref. No. E-007-2004/1-US-01

Leydig, Voit & Mayer, Ltd.  
Two Prudential Plaza, Suite 4900  
180 N. Stetson Avenue  
Chicago, Illinois 60601-6780

### **ASSIGNMENT**

**WHEREAS, WE**, Paul S. Liu, B. Rao Vishnuvajjala, Kenneth Snader, employees of the Department of Health and Human Services, have co-invented a certain invention entitled:

#### **PYRROLOBENZODIAZEPINES**

for which invention we have executed an application (non-provisional) for a U.S. patent, which was filed on May 13, 2005, under U.S. Application No. 11/129,207, and

**WHEREAS**, we are some of the applicants named in the above-identified application for a U.S. patent; and

**WHEREAS**, the conditions under which said invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096 to the entire right, title, and interest herein, both domestic and foreign; and

**WHEREAS**, the Government of the United States of America (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

**NOW, THEREFORE**, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee, represented by the Secretary, Department of Health and Human Services, the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

**WE HEREBY AUTHORIZE** the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

**UPON SAID CONSIDERATION**, we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

**WE DO HEREBY COVENANT** and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set

**PATENT**  
**REEL: 018053 FRAME: 0490**

In re Appln. of LIU et al.  
U.S. Patent Application No. 11/129,207

forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute and deliver such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date Nov 8, 2005 Paul S. Liu  
Paul S. Liu

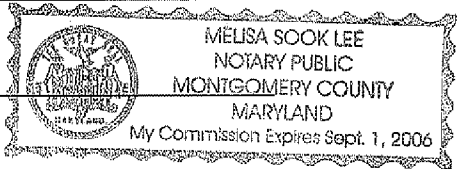
STATE OF MD )  
COUNTY OF Montgomery )

On this 8 day of NOV, 2005, before me, a Notary Public in and for said county, appeared Paul S. Liu, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

{SEAL}

Melisa Sook Lee  
Notary Public

My Commission Expires:



In re Appin. of LIU et al.  
U.S. Patent Application No. 11/129,207

Date 11/8/05 B. Rao Vishnuvajjala  
B. Rao Vishnuvajjala

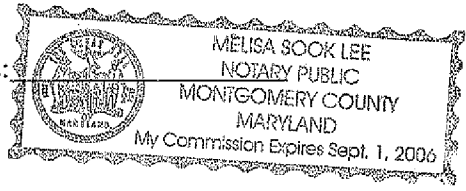
STATE OF MD )  
COUNTY OF Montgomery )

On this 8 day of Nov, 2005, before me, a Notary Public in and for said county, appeared B. Rao Vishnuvajjala, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Melisa Sook Lee  
Notary Public

{SEAL}

My Commission Expires:



Date \_\_\_\_\_  
Kenneth Snader

STATE OF \_\_\_\_\_ )  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for said county, appeared Kenneth Snader, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

{SEAL}

My Commission Expires: \_\_\_\_\_

Leydig, Voit & Mayer, Ltd.  
Two Prudential Plaza, Suite 4900  
180 N. Stetson Avenue  
Chicago, Illinois 60601-6780

**ASSIGNMENT**

**WHEREAS, WE, Paul S. Liu, B. Rao Vishnuvajjala, Kenneth Snader, employees of the Department of Health and Human Services, have co-invented a certain invention entitled:**

**PYRROLOBENZODIAZEPINES**

for which invention we have executed an application (non-provisional) for a U.S. patent, which was filed on May 13, 2005, under U.S. Application No. 11/129,207, and

**WHEREAS, we are some of the applicants named in the above-identified application for a U.S. patent; and**

**WHEREAS, the conditions under which said invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096 to the entire right, title, and interest herein, both domestic and foreign; and**

**WHEREAS, the Government of the United States of America (hereinafter referred to as Assignee), is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.**

**NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee, represented by the Secretary, Department of Health and Human Services, the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.**

**WE HEREBY AUTHORIZE** the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.

**UPON SAID CONSIDERATION, we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.**

**WE DO HEREBY COVENANT** and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set

In re Appln. of LIU et al.  
U.S. Patent Application No. 11/129,207

forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute and deliver such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_

\_\_\_\_\_  
Paul S. Liu

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, before me, a Notary Public in and for said county, appeared Paul S. Liu, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

{SEAL}

My Commission Expires: \_\_\_\_\_

=====

Date \_\_\_\_\_

\_\_\_\_\_  
B. Rao Vishnuvajjala

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, before me, a Notary Public in and for said county, appeared B. Rao Vishnuvajjala, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

{SEAL}

My Commission Expires: \_\_\_\_\_

Date November 8, 2005

Kenneth Snader  
Kenneth Snader

STATE OF Florida )

COUNTY OF Indian River )

On this 8 day of November, 2005, before me, a Notary Public in and for said county, appeared Kenneth Snader, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Cathy A. Glennon  
Notary Public

{SEAL}



Cathy A. Glennon  
Commission #DD283093  
Expires: Jan 21, 2008  
Bonded Thru  
Atlantic Bonding Co., Inc.

My Commission Expires: Jan 21, 2008



Leydig, Voit & Mayer, Ltd.  
Two Prudential Plaza, Suite 4900  
180 North Stetson Avenue  
Chicago, Illinois 60601-6780

**ASSIGNMENT**

**WHEREAS, WE**, David E. Thurston, Philip W. Howard, and Stephen J. Gregson, employees of Spirogen, Ltd., have co-invented a certain invention entitled:

**PYRROLOBENZODIAZEPINES**

for which invention we have executed an application (non-provisional) for a U.S. patent, which was filed on May 13, 2005, under U.S. Application No. 11/129,207, and

**WHEREAS**, we are some of the applicants named in the above-identified application; and

**WHEREAS**, Spirogen, Ltd., of 29/39 Brunswick Square, London WC1N 1AX, hereinafter referred to as Assignee, is desirous of acquiring our entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

**NOW, THEREFORE**, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns our full and exclusive rights in and to the invention in the U.S. and every foreign country and our entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we do hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

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In re Appln. of Liu et al.  
U.S. Patent Application No. 11/129,207

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_ David E. Thurston  
David E. Thurston

Date 25/07/06 \_\_\_\_\_  
Witness Kurt L. Pickering

Date \_\_\_\_\_  
Witness \_\_\_\_\_

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Date \_\_\_\_\_  
Philip W. Howard

Date \_\_\_\_\_  
Witness \_\_\_\_\_

Date \_\_\_\_\_  
Witness \_\_\_\_\_

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Date \_\_\_\_\_  
Stephen J. Gregson

Date \_\_\_\_\_  
Witness \_\_\_\_\_

Date \_\_\_\_\_  
Witness \_\_\_\_\_

Leydig, Voit & Mayer, Ltd.  
Two Prudential Plaza, Suite 4900  
180 North Stetson Avenue  
Chicago, Illinois 60601-6780

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In re Appln. of Liu et al.  
U.S. Patent Application No. 11/129,207

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_ David E. Thurston \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date 26/7/2006 \_\_\_\_\_  
Philip W. Howard

Date 26/7/2006 \_\_\_\_\_  
Witness Armand C. TIBERGHIEU  
Armand C. TIBERGHIEU

Date 26/7/2006 \_\_\_\_\_  
Witness L.A. Masterson  
(L.A. Masterson)

Date \_\_\_\_\_  
Stephen J. Gregson \_\_\_\_\_

Date \_\_\_\_\_  
Witness \_\_\_\_\_

Date \_\_\_\_\_  
Witness \_\_\_\_\_

Assignment Appln Joint-Witness (Revised 10/25/01)

**PATENT**  
Attorney Docket No. 235785

Leydig, Voit & Mayer, Ltd.  
Two Prudential Plaza, Suite 4900  
180 North Stetson Avenue  
Chicago, Illinois 60601-6780

**ASSIGNMENT**

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**PATENT**  
**REEL: 018053 FRAME: 0500**

In re Appln. of Liu et al.  
U.S. Patent Application No. 11/129,207

IN WITNESS WHEREOF, we have hereunder set our hands on the dates shown below.

Date \_\_\_\_\_ David E. Thurston \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

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Date \_\_\_\_\_ Philip W. Howard \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

Date \_\_\_\_\_ Witness \_\_\_\_\_

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Date 27/07/2006 \_\_\_\_\_  
Stephen J. Gregson

Date 27/07/2006 \_\_\_\_\_  
Witness L.A. Masterson (L.A. Masterson)

Date 27/07/2006 \_\_\_\_\_  
Witness G.D. Kang (G.D. KANG)

Assignment Appln Joint-Witness (Revised 10/25/01)