

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT2634606

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT												
NATURE OF CONVEYANCE:	Corrective Assignment to correct the TYPOGRAPHICAL ERROR IN THE ASSIGNEE'S NAME previously recorded on Reel 031619 Frame 0753. Assignor (s) hereby confirms the ASSIGNEE'S NAME SHOULD BE THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK.												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>GERHARD RANDERS-PEHRSON</td> <td>10/31/2013</td> </tr> <tr> <td>DAVID JONATHAN BRENNER</td> <td>11/09/2013</td> </tr> <tr> <td>ALAN BIGELOW</td> <td>11/01/2013</td> </tr> </tbody> </table>		Name	Execution Date	GERHARD RANDERS-PEHRSON	10/31/2013	DAVID JONATHAN BRENNER	11/09/2013	ALAN BIGELOW	11/01/2013				
Name	Execution Date												
GERHARD RANDERS-PEHRSON	10/31/2013												
DAVID JONATHAN BRENNER	11/09/2013												
ALAN BIGELOW	11/01/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK</td> </tr> <tr> <td>Street Address:</td> <td>412 LOW MEMORIAL LIBRARY</td> </tr> <tr> <td>Internal Address:</td> <td>535 WEST 116TH STREET</td> </tr> <tr> <td>City:</td> <td>NEW YORK</td> </tr> <tr> <td>State/Country:</td> <td>NEW YORK</td> </tr> <tr> <td>Postal Code:</td> <td>10027</td> </tr> </table>		Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK	Street Address:	412 LOW MEMORIAL LIBRARY	Internal Address:	535 WEST 116TH STREET	City:	NEW YORK	State/Country:	NEW YORK	Postal Code:	10027
Name:	THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK												
Street Address:	412 LOW MEMORIAL LIBRARY												
Internal Address:	535 WEST 116TH STREET												
City:	NEW YORK												
State/Country:	NEW YORK												
Postal Code:	10027												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14021631</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14021631								
Property Type	Number												
Application Number:	14021631												
CORRESPONDENCE DATA													
Fax Number:	(212)953-7201												
Phone:	212-953-7201												
Email:	ny.patent.docketing@dorsey.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	DORSEY & WHITNEY LLP - NEW YORK												
Address Line 1:	51 WEST 52ND STREET												
Address Line 4:	NEW YORK, NEW YORK 10019-6119												
ATTORNEY DOCKET NUMBER:	NO CLIENT CHARGE												
NAME OF SUBMITTER:	GARY ABELEV												

PATENT

Signature:	/s/ Gary Abelev
Date:	12/03/2013
<b>Total Attachments: 7</b> source=486328-135 assignment#page1.tif source=486328-135 assignment#page2.tif source=486328-135 assignment#page3.tif source=486328-135 assignment#page4.tif source=486328-135 assignment#page5.tif source=486328-135 assignment#page6.tif source=486328-135 assignment#page7.tif	



United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)*Electronic Patent Assignment System***Confirmation Receipt**

Your assignment has been received by the USPTO.  
The coversheet of the assignment is displayed below:

**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1

Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>GERHARD RANDERS-PEHRSON</td><td>10/31/2013</td></tr><tr><td>DAVID JONATHAN BRENNER</td><td>11/09/2013</td></tr><tr><td>ALAN BIGELOW</td><td>11/01/2013</td></tr></tbody></table>	Name	Execution Date	GERHARD RANDERS-PEHRSON	10/31/2013	DAVID JONATHAN BRENNER	11/09/2013	ALAN BIGELOW	11/01/2013					
Name	Execution Date												
GERHARD RANDERS-PEHRSON	10/31/2013												
DAVID JONATHAN BRENNER	11/09/2013												
ALAN BIGELOW	11/01/2013												
<b>RECEIVING PARTY DATA</b>													
<table border="1"><tr><td><b>Name:</b></td><td>THE TRUSTEES OF COMUMBIA UNIVERSITY IN THE CITY OF NEW YORK</td></tr><tr><td><b>Street Address:</b></td><td>412 LOW MEMORIAL LIBRARY</td></tr><tr><td><b>Internal Address:</b></td><td>535 WEST 116TH STREET</td></tr><tr><td><b>City:</b></td><td>NEW YORK</td></tr><tr><td><b>State/Country:</b></td><td>NEW YORK</td></tr><tr><td><b>Postal Code:</b></td><td>10027</td></tr></table>	<b>Name:</b>	THE TRUSTEES OF COMUMBIA UNIVERSITY IN THE CITY OF NEW YORK	<b>Street Address:</b>	412 LOW MEMORIAL LIBRARY	<b>Internal Address:</b>	535 WEST 116TH STREET	<b>City:</b>	NEW YORK	<b>State/Country:</b>	NEW YORK	<b>Postal Code:</b>	10027	
<b>Name:</b>	THE TRUSTEES OF COMUMBIA UNIVERSITY IN THE CITY OF NEW YORK												
<b>Street Address:</b>	412 LOW MEMORIAL LIBRARY												
<b>Internal Address:</b>	535 WEST 116TH STREET												
<b>City:</b>	NEW YORK												
<b>State/Country:</b>	NEW YORK												
<b>Postal Code:</b>	10027												
<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td><b>Application Number:</b></td><td>14021631</td></tr></tbody></table>	Property Type	Number	<b>Application Number:</b>	14021631									
Property Type	Number												
<b>Application Number:</b>	14021631												

**CORRESPONDENCE DATA**

**Fax Number:** (212)953-7201  
**Phone:** 212-415-9200  
**Email:** ny.patent.docketing@dorsey.com  
*Correspondence will be sent via US Mail when the email attempt is unsuccessful.*  
**Correspondent Name:** DORSEY & WHITNEY LLP - NEW YORK ATTENTIO  
**Address Line 1:** 51 WEST 52ND STREET  
**Address Line 4:** NEW YORK, NEW YORK 10019-6119

**ATTORNEY DOCKET  
NUMBER:**

219262WOUS04-486328-135

**NAME OF SUBMITTER:**

GARY ABELEV

**Signature:**

/s/ Gary Abelev

**Date:**

11/18/2013

**Total Attachments: 5**

source=486328-135 Assignment#page1.tif  
source=486328-135 Assignment#page2.tif  
source=486328-135 Assignment#page3.tif  
source=486328-135 Assignment#page4.tif  
source=486328-135 Assignment#page5.tif

**RECEIPT INFORMATION**

**EPAS ID:** PAT2618217  
**Receipt Date:** 11/18/2013  
**Fee Amount:** \$40

**[Return to home page](#)**

[| .HOME](#) | [INDEX](#) | [SEARCH](#) | [eBUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

ASSIGNMENT

WHEREAS, WE,

**GERHARD RANDERS-PEHRSON**

113 Hawkes Avenue  
Ossining, New York 10562

Citizenship: United States of America

**DAVID JONATHAN BRENNER**

139 West 82<sup>nd</sup> Street, Apt. 9G  
New York, New York 10024

Citizenship: United Kingdom

**ALAN BIGELOW**

97 Washington Avenue  
Hastings-on-Hudson, New York 10706

Citizenship: United States of America

have made an invention entitled "APPARATUS, METHOD AND SYSTEM FOR SELECTIVELY EFFECTING AND/OR KILLING BACTERIA", as set forth and described in U.S. Non-Provisional Patent Application No. 14/021,631 filed September 9, 2013 and in International Patent Application No. PCT/US2012/122210 which was filed on March 7, 2012 and in U.S. Provisional Patent Application No. 61/450,038 filed March 7, 2011 with the United States Patent and Trademark Office; and

WHEREAS, THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, a not-for-profit organization having an office for the transaction of business at 412 Low Memorial Library, 535 West 116<sup>th</sup> Street, New York, New York 10027, is desirous of acquiring our entire right, title and interest in and to said invention, and in and to the said application for Letters Patent therefor, and any Letters Patent which may be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, BE IT KNOWN, that WE, the GERHARD RANDERS-PEHRSON, DAVID JONATHAN BRENNER and ALAN BIGELOW for and in consideration of the sum of One Dollar (\$1.00), lawful money of the United States, to us in hand paid by said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, and other valuable considerations unto us moving from said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, at or before the ensealing and delivery of these presents, the receipt of which is hereby acknowledged, have sold, assigned, transferred and conveyed and by these presents do sell, assign, transfer and convey, unto said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK,

its successors and assigns, the entire right, title and interest in and to the said invention entitled "APPARATUS, METHOD AND SYSTEM FOR SELECTIVELY EFFECTING AND/OR KILLING BACTERIA", as set forth and described in U.S. Non-Provisional Patent Application No. 14/021,631 filed September 9, 2013 and in International Patent Application No. PCT/US2012/122210 which was filed on March 7, 2012 and in U.S. Provisional Patent Application No. 61/450,038 filed March 7, 2011 with the United States Patent and Trademark Office, and in and to said application and any application claiming priority therefrom, and any non-provisional application, division, continuation or continuation-in-part thereof, and in and to any Letters Patent of the United States which may be issued on any of said applications, and any reissues thereof, and in and to any and all applications for Letters Patent filed in foreign countries for said invention, including all priority rights under the Paris Convention, and any and all Letters Patent which may be granted in foreign countries therefor, TO HAVE AND TO HOLD THE SAME to the full end of the term or terms for which any and all said Letters Patent may be granted;

AND WE, the said GERHARD RANDERS-PEHRSON, DAVID JONATHAN BRENNER and ALAN BIGELOW, do hereby authorize and request the Commissioner of Patents and Trademarks to issue the said Letters Patent of the United States to said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, as the assignee of the entire right, title and interest in and to the same, for the sole use and benefit of said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, its successors and assigns;

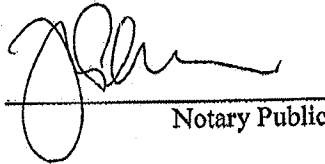
AND WE, the said GERHARD RANDERS-PEHRSON, DAVID JONATHAN BRENNER and ALAN BIGELOW, for the considerations aforesaid, do hereby covenant and agree to and with said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, its successors and assigns, that we have the full power to make this assignment, and that the rights assigned are not encumbered by any grant, license or right heretofore given, and that we, our executors or administrators, shall and will do all lawful acts and things and make, execute and deliver without further compensation, any and all other instruments in writing, further applications, papers, affidavits, powers of attorney, assignments, and other documents which, in the opinion of counsel for said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, its successors and assigns, may be required or necessary to more effectively secure to and vest in said THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF NEW YORK, its successors and assigns, the entire right, title and interest in and to said invention, applications, Letters Patent, rights, benefits, privileges and advantages hereby sold, assigned, transferred and conveyed, and that we will sign any applications for reissue which may be desired by the owner of the patent or patents which may be issued for the said invention.

IN WITNESS WHEREOF, GERHARD RANDERS-PEHRSON, DAVID JONATHAN BRENNER and ALAN BIGELOW, have hereunto set our hands and seals on the date below written.

  
GERHARD RANDERS-PEHRSON

STATE OF NY )  
COUNTY OF WESTCHESTER )

BE IT KNOWN, that on this 31<sup>st</sup> day of OCT, 2013, before me personally came GERHARD RANDERS-PEHRSON, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

  
Notary Public

JOHN A PERRONE  
NOTARY PUBLIC, STATE OF NEW YORK  
NO. 01PE8130919  
QUALIFIED IN WESTCHESTER COUNTY  
MY COMMISSION EXPIRES JULY 25, 2017

David Brenner

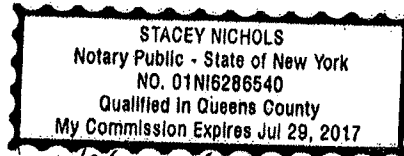
DAVID JONATHAN BRENNER

STATE OF New York )  
COUNTY OF New York

BE IT KNOWN, that on this 9<sup>th</sup> day of November, 2013, before me personally came DAVID JONATHAN BRENNER, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

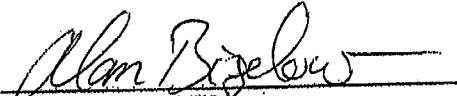
[Signature]

Notary Public



11/9/13 [Signature]

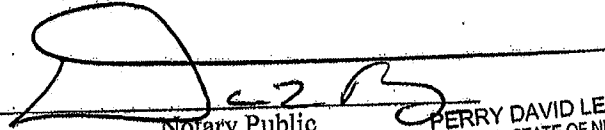


  
ALAN BIGELOW

STATE OF )

COUNTY OF )

BE IT KNOWN, that on this 1 day of Nov., 2013, before me personally came ALAN BIGELOW, to me known and known to me to be the person mentioned in and who executed the foregoing assignment, and he acknowledged to me that he executed the same as his free act and deed for the use and purposes therein mentioned.

  
Notary Public

PERRY DAVID LEE  
NOTARY PUBLIC, STATE OF NEW YORK  
QUALIFIED IN WESTCHESTER COUNTY  
REG. # 01PE6136586  
MY COMM. EXP. NOV. 14, 2013