

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
CuraGen Corporation		01/25/2006
RECEIVING PARTY DATA		
Name:	454 Life Sciences Corporation	
Street Address:	20 Commercial Street	
City:	Branford	
State/Country:	CONNECTICUT	
Postal Code:	06405	
PROPERTY NUMBERS Total: 2		
Property Type	Number	
Application Number:	09192605	
Patent Number:	6475722	
CORRESPONDENCE DATA		
Fax Number:	(212)983-3115	
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>		
Phone:	212-935-3000	
Email:	igont@mintz.com	
Correspondent Name:	Mintz Levin Cohn Ferris Glovsky et al.	
Address Line 1:	666 Third Avenue, 24th Floor	
Address Line 4:	New York, NEW YORK 10017	
ATTORNEY DOCKET NUMBER:	21465-503 UTIL	
NAME OF SUBMITTER:	Ilona Gont	
<p>Total Attachments: 8</p> <p>source=21465-503 Recordation Cover Sheet and Assignment#page1.tif</p> <p>source=21465-503 Recordation Cover Sheet and Assignment#page2.tif</p> <p>source=21465-503 Recordation Cover Sheet and Assignment#page3.tif</p>		

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source=21465-503 Recordation Cover Sheet and Assignment#page8.tif

Date of Transmittal: March 21, 2007

Attorney Docket No. 21465-503

RECORDATION FORM COVER SHEET
PATENTS ONLY

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): CuraGen Corporation
Execution Date: January 25, 2006
Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No
2. Name and address of receiving party(ies)
Name: 454 Life Sciences Corporation
20 Commercial Street
Branford, Connecticut 06405
Additional name(s) & address(es) attached? ☐ Yes ☒ No
3. Nature of conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

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):

09/192,605, Filed November 16, 1998

B. Patent No(s):

6,475,722, Issued November 5, 2002

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
Concerning document should be mailed:Name: Ivor R. Elrifi, Esq.
Address: MINTZ, LEVIN, COHN, FERRIS
GLOVSKY and POPEO, P.C.
Customer Number: 35437
666 Third Avenue - 24th Floor
New York, New York 10017

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) \$40.00

- ☒ Enclosed
☒ The Commissioner is authorized to charge Deposit Account No: 50-0311,
Reference No. 21465-503 for any deficiencies.

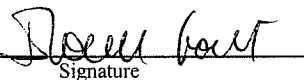
DO NOT USE THIS SPACE

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.

Ilona Gont, Reg. No. 58,714

Name of Person Signing


Signature

March 21, 2007

Date

Total number of pages including cover sheet, attachments, and document: (8)

Mail documents to be recorded with required cover sheet information to:

MAIL STOP ASSIGNMENT RECORDATION SERVICES
Director of the United States Patent and Trademark Office
P. O. Box 1450
Alexandria, VA 22313-1450

Express Mail Label No.:
Date of Deposit:

Attorney Docket No.: 21465-501, 502, 503

ASSIGNMENT

CuraGen Corporation, a Delaware corporation having principal offices at 322 East Main Street, Branford, CT 06405 ("ASSIGNOR"), the undersigned, for good and valuable consideration, the receipt of which is hereby acknowledged, hereby assigns, sells and transfers to **454 Life Sciences Corporation**, a Delaware corporation having offices at 20 Commercial Street, Branford, CT 06405, and its successors, assigns and legal representatives, all hereinafter referred to as the ASSIGNEE: (1) the entire right, title and interest for the United States and in all countries, in and to any and all inventions, discoveries and applications which are disclosed in the patents and applications for patents as listed in Schedule A, including any renewals, revivals, reissues, reexaminations, extensions, continuations-in-part and divisions thereof and any substitute applications therefor; (2) the full and complete right to file patent applications in the name of the ASSIGNEE or its designee, or in the name of CuraGen Corporation, at the ASSIGNEE's or its designee's election, on the aforesaid inventions, discoveries and applications in all countries of the world; (3) the entire right, title and interest in and to any Letters Patents which may issue thereon in the United States or in any country, and any renewals, revivals, reissues, reexaminations and extensions thereof, and any patents of confirmation, registration and importation of the same; and (4) the entire right, title and interest in all Convention and Treaty Rights of all kinds thereon, including without limitation all rights of priority in any country of the world, in and to the above inventions, discoveries and applications.

CuraGen Corporation hereby authorizes and requests the competent authorities to grant and to issue any and all such Letters Patent in the United States and throughout the world to the ASSIGNEE of the entire right, title and interest therein, as fully and entirely as the same would have been held and enjoyed by CuraGen Corporation had this assignment, sale and transfer not been made.

CuraGen Corporation agrees, at any time, upon the request of the ASSIGNEE, to execute and to deliver to the ASSIGNEE any additional applications for patents for said inventions and discoveries, or any part or parts thereof, and any applications for patents of confirmation, registration and importation based on any Letters Patent issuing on said inventions, discoveries, or applications and divisions, continuations, renewals, revivals, reissues, reexaminations and extensions thereof.

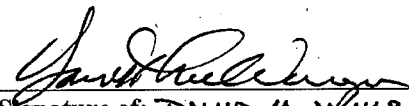
CuraGen Corporation further agrees at any time to execute and to deliver upon request of the ASSIGNEE such additional documents, if any, as are necessary or desirable to secure patent protection on said inventions, discoveries and applications throughout all countries of the world, and otherwise to do that necessary to give full effect to and to perfect the rights of the ASSIGNEE under this Assignment, including the execution, delivery and procurement of any and all further documents evidencing this assignment, transfer and sale as may be necessary or desirable.

CuraGen Corporation hereby covenants that it has obtained full right to convey the entire interests listed in Schedule A by virtue of prior assignments, and that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

CuraGen Corporation further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

For CuraGen Corporation:

Date: 1/25/06


Signature of: DAVID M. WURZER
Title: EVP & CFO
CuraGen Corporation

State of Connecticut
County of New Haven

Subscribed and sworn to before me that he/she/they executed the instrument in his/her/their authorized capacity, and that in so doing, the entity upon behalf of which the person(s) acted, executed the instrument this 25th day of Jan. 2006.

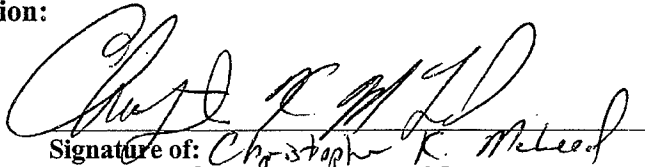

Notary Public

My commission expires 2/28/09

JENELL MARIE LAWSON
Notary Public
Connecticut
My Commission Expires Feb 28, 2009

For 454 Life Sciences Corporation:

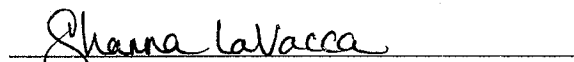
Date:


Signature of: Christopher K. McLeod
Title: President & CEO
454 Gen Corporation
454 Life Sciences

State of Connecticut

County of New Haven

Subscribed and sworn to before me that he/she/they executed the instrument in his/her/their authorized capacity, and that in so doing, the entity upon behalf of which the person(s) acted, executed the instrument this 25 day of January, 2006.


Notary Public

My commission expires 6/30/07

SCHEDULE A

Filing Date	Serial Number	Country	Docket Number	Patent Number	Title	Status
September 16, 1999	09/398833	US	21465-501	6,274,320	Method of Sequencing a Nucleic Acid	Issued
September 15, 2000	75820/00	Australia	21465-501 AU		Method of Sequencing a Nucleic Acid	Pending
September 15, 2000	2384510	Canada	21465-501 CA		Method of Sequencing a Nucleic Acid	Pending
September 15, 2000	00965029.2	Europe	21465-501 EP		Method of Sequencing a Nucleic Acid	Pending
September 15, 2000	2001-523808	Japan	21465-501 JP		Method of Sequencing a Nucleic Acid	Pending
February 26, 2004	10/788529	US	21465-501 CIP DIV		Method of Sequencing a Nucleic Acid	Pending
March 21, 2001	09/814338	US	21465-501 CIP2		Method of Sequencing a Nucleic Acid	Pending

Filing Date	Serial Number	Country	Docket Number	Patent Number	Title	Status
November 19, 2002	10/299180	US	21465-501 CIP2 CON1		Method of Sequencing a Nucleic Acid	Pending
March 21, 2002	247390/02	Australia	21465-501 CIP2 AU		Method of Sequencing a Nucleic Acid	Pending
March 21, 2002	2441603	Canada	21465-501 CIP2 CA		Method of Sequencing a Nucleic Acid	Pending
March 21, 2002	02715174.5	Europe	21465-501 CIP2 EP		Method of Sequencing a Nucleic Acid	Pending
March 21, 2002	2002-575327	Japan	21465-501 CIP2 JP		Method of Sequencing a Nucleic Acid	Pending
August 15, 2002	10/222298	US	21465-501 CIP3 CON1		Method of Sequencing a Nucleic Acid	Pending
August 15, 2002	10/222592	US	21465-501 CIP3 CON3		Method of Sequencing a Nucleic Acid	Pending
November 26, 1999	09/4494402	US	21465-502		Nucleic Acid Probe Arrays	Pending
November 27, 2000	17927/01	Australia	21465-502 AU	783841	Nucleic Acid Probe Arrays	Issued
November 27, 2000	2392474	Canada	21465-502 CA		Nucleic Acid Probe Arrays	Pending

Filing Date	Serial Number	Country	Docket Number	Patent Number	Title	Status
November 27, 2000	00980700.9	Europe	21465-502 EP		Nucleic Acid Probe Arrays	Pending
November 27, 2000	2001-539921	Japan	21465-502 JP		Nucleic Acid Probe Arrays	Pending
November 16, 1998	09/192605	US	21465-503	6,475,722	Surface Treatments for DNA Processing Devices	Issued
November 17, 1998	14147/99	Australia	21465-503 AU	765283	Surface Treatments for DNA Processing Devices	Issued
November 17, 1998	2312421	Canada	21465-503 CA		Surface Treatments for DNA Processing Devices	Pending
November 17, 1998	98958027.9	Europe	21465-503 EP		Surface Treatments for DNA Processing Devices	Pending
November 17, 1998	2000-523379	Japan	21465-503 JP		Surface Treatments for DNA Processing Devices	Pending
November 17, 1998	01101999.8	Hong Kong	21465-503 HK		Surface Treatments for DNA Processing Devices	Pending

Filing Date	Serial Number	Country	Docket Number	Patent Number	Title	Status
October 23, 2002	10/278627	US	21465-503 CIP1		Surface Treatments for DNA Processing Devices	Pending

TRA 2140907v.2