

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4680545

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SUSAN H. HARDIN	01/06/2004
JAMES M. BRIGGS	01/06/2004
SHIAO-CHUN TU	01/06/2004
XIAOLIAN GAO	01/07/2004
RICHARD WILLSON	01/06/2004
RECEIVING PARTY DATA	
Name:	VISIGEN BIOTECHNOLOGIES, INC.
Street Address:	2575 WEST BELLFORT
Internal Address:	SUITE 250
City:	HOUSTON
State/Country:	TEXAS
Postal Code:	77054
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14977167
CORRESPONDENCE DATA	
Fax Number:	(760)476-6048
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	650-266-5805
Email:	lsgdocketing@thermofisher.com
Correspondent Name:	LIFE TECHNOLOGIES CORPORATION
Address Line 1:	5823 NEWTON DRIVE
Address Line 2:	IP DEPARTMENT
Address Line 4:	CARLSBAD, CALIFORNIA 92008
ATTORNEY DOCKET NUMBER:	IVGN1014.10CON
NAME OF SUBMITTER:	MILA T. KASAN
SIGNATURE:	/Mila T. Kasan/
DATE SIGNED:	11/08/2017

Total Attachments: 7

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: HARDIN, SUSAN, ET.AL.

SERIAL NO: 10/007621

FILED: December 3, 2001

§ EXAMINER:

§ GROUP ART UNIT:

§ DOCKET: 00007/02UTL

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FOR: Enzymatic Nucleic Acid Synthesis: Compositions
and Methods for Altering Monomer Incorporation
Fidelity

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, Susan H. Hardin, James M. Briggs, Shiao-Chun Tu, Xiaolian Gao, and Richard Willson (the "Undersigned") do hereby: SELL, ASSIGN AND TRANSFER to VisiGen Biotechnologies, Inc. (the "Assignee"), a Texas corporation having a place of business at 2575 West Bellfort, Suite 250, Houston, Texas 77054, its successors, trustees, devisees and assigns, the entire right, title and interest for the United States and all foreign countries in and to:

- a. Any and all improvements which are disclosed in the application for United States Letters Patent under 35 U.S.C. §§ 111(a) or (b), which has been executed by the Undersigned concurrently herewith and is entitled **Enzymatic Nucleic Acid Synthesis; Compositions and Methods for Altering Monomer Incorporation Fidelity**;
- b. Any and all applications for patent or like protection on said improvements that have now been or may in the future be made by me or my legal representatives, whether in the United States of America or any other country or place anywhere in the world;
- c. Any and all patents and like protection that have now been or may in the future be granted on said improvements to me or my legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
- d. Any and all substitutions, divisions, continuations, continuations-in-part, renewals, reissues, reexaminations, extensions, and the like of said applications and/or patents or like grants, including, without limitation, those obtained or permissible under past, present and/or future law and statutes;
- e. The express right to file foreign applications under the provisions of any convention or treaty and claim priority based on any and all application filed

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ASSIGNMENT
EMN: EL 990 554 111 US

Inventor's Initials:

SH JG RCW
ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0854

PATENT
REEL: 044076 FRAME: 0092

in the United States of America based on said improvements;

- f. All rights of action on account of past, present and/or future authorized or unauthorized use of said improvements and for misappropriation of said improvement and/or infringement of said patents derived from said improvements and like protection;
- g. The right of Assignee to file in its name applications for patents and like protection for said improvements in any country and countries foreign to the United States of America; and
- h. All international rights of priority associated with said improvements, applications, patents and like protection;

(hereinafter "Rights").

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States of America and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

WARRANT AND COVENANT that the Undersigned have the right to make the assignment set forth herein;

COVENANT, when requested and at the expense of the Assignee, its successors, and/or assigns, the Undersigned will cooperate with the Assignee, its successors, and/or assigns, to carry out in good faith the intent and purpose of this assignment. Such cooperation will include, without limitation:

- (1) Prompt execution of all papers that are deemed necessary or desirable by Assignee to perfect the right, title and interest herein conveyed;
- (2) Prompt execution of all petitions, oaths, specifications, declarations or other papers that are deemed necessary or desirable by Assignee for prosecuting patent applications, for filing and prosecuting substitute, divisional, continuing, or additional applications in the United States of America and/or foreign countries, for filing and prosecuting applications for reissuance or reexamination of previously granted Letters Patent, and for interference proceedings involving and covering any of the Rights, and
- (3) Prompt assistance and cooperation, including, but not limited to, execution of

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ASSIGNMENT
EMN: EL 999 554 212 US

Inventor's Initials

SHO [Signature] XG RCH
ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0855

PATENT
REEL: 044076 FRAME: 0093

documents and testifying, in the prosecution of legal proceedings involving any of the Rights, including, but not limited to, patent prosecution, interference proceedings, infringement court actions, opposition proceedings, cancellation proceedings, priority contests, unfair competition court actions, trade secret court actions, public use proceedings, slander, license breach and royalty collection proceedings and any other legal proceedings.

TO BE BINDING on the heirs, assigns, representatives and successors of the Undersigned and inure to Assignee, its successors, trustees, devisees and assigns.

EXECUTED THIS 6 day of January, 2004

Susan H. Hardin

Susan H. Hardin

STATE OF TEXAS

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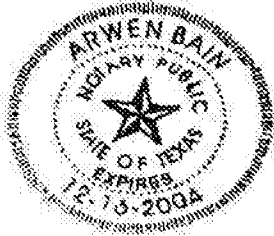
COUNTY OF HARRIS

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BEFORE ME, the undersigned authority, on this day personally appeared Susan H. Hardin, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed and initialed each page of the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 6th day of January, 2004



Arwen Bain

NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

ASSIGNMENT
SMN: EL 990 534 212 US

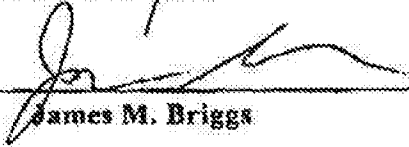
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Investor's Initials: *SH [initials] K6 RCH*
ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0856

PATENT
REEL: 044076 FRAME: 0094

EXECUTED THIS 6 day of JANUARY, 2004


James M. Briggs

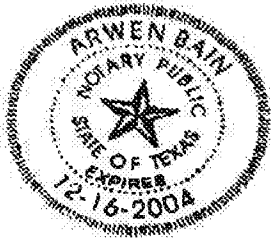
STATE OF TEXAS

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COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared James M. Briggs, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed and initialed each page of the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 6th day of January, 2004




NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

Inventor's Initials: SH [Signature] XG RCW
ROBERT W. STROZGER, PLLC

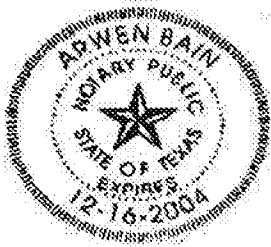
EXECUTED THIS 6 day of January, 2004

Shiao-Chun Tu
Shiao-Chun Tu

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Shiao-Chun Tu, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed and initialed each page of the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 6th day of January, 2004



Adwen Bain
NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

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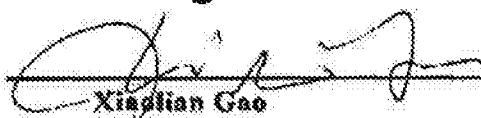
ASSIGNMENT
EMN: EL 290 554 112 LIS

Inventor's Initials: SH [signature] YG KCL
ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0858

PATENT
REEL: 044076 FRAME: 0096

EXECUTED THIS 7th day of January, 2004


Xiaolian Gao

STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared Xiaolian Gao, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed and initialed each page of the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 7th day of January, 2004




NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

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ASSIGNMENT
EMN: EL 290 554 212 US

Inventor's Initials: SHB-XGR
ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0859

PATENT
REEL: 044076 FRAME: 0097

EXECUTED THIS 6th day of January, 2000


Richard C. Willson

STATE OF TEXAS

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COUNTY OF HARRIS

BEFORE ME, the undersigned authority, on this day personally appeared Richard Willson, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed and initialed each page of the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND and seal of office this 6th day of January, 2000




NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

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ASSIGNMENT
BMN: EL 288 544 212 US

Inventor's Initials: SH VC KCV
ROBERT W. STROZIER, PLLC

RECORDED: 01/30/2004

PATENT
REEL: 014941 FRAME: 0860

RECORDED: 11/08/2017

PATENT
REEL: 044076 FRAME: 0098