

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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 C. Willson	01/06/2004

RECEIVING PARTY DATA

Name:	VISIGEN BIOTECHNOLOGIES, INC.
Street Address:	2575 West Bellfort, Suite 250
City:	Houston
State/Country:	TEXAS
Postal Code:	77054

PROPERTY NUMBERS Total: 6

Property Type	Number
Application Number:	11648107
Application Number:	11648108
Application Number:	11648114
Application Number:	11648721
Application Number:	11648723
Application Number:	12352353

CORRESPONDENCE DATA

Fax Number: (760)476-6048

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

Phone: 760-268-8365

Email: mary.gillette@lifetech.com

Correspondent Name: Life Technologies c/o Intellevate

501348286

PATENT
REEL: 025362 FRAME: 0991

CH \$240.00 11648107

Address Line 1: P.O. Box 52050
Address Line 4: Minneapolis, MINNESOTA 55402

ATTORNEY DOCKET NUMBER: IVGN 1014

NAME OF SUBMITTER: Mary E. Gillette

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

Page 1 of 7

ASSIGNMENT
EMN: EL 990 554 211 US.

Inventor's Initials:

SH Hardin, JG Briggs, RC Tu, XG Gao, RW Willson
ROBERT W. STROZIER, PLLCPATENT
REEL: 014941 FRAME: 0854PATENT
REEL: 025362 FRAME: 0993

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

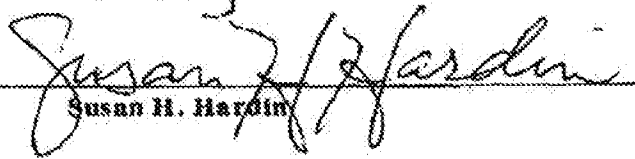
PATENT
REEL: 014941 FRAME: 0855

PATENT
REEL: 025362 FRAME: 0994

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

STATE OF TEXAS

§

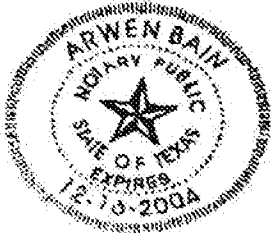
COUNTY OF HARRIS

§

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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

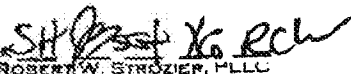



NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

ASSIGNMENT
SMN: EL 990 534 212 US

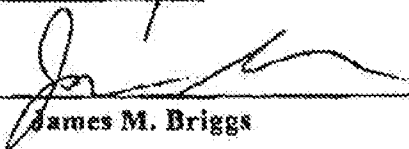
Page 3 of 7

Inventor's Initials


ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0856

PATENT
REEL: 025362 FRAME: 0995

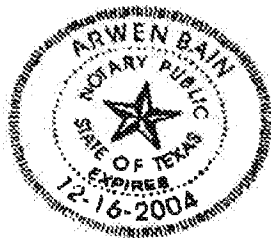
EXECUTED THIS 6 day of JANUARY, 2004
James M. Briggs

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 TEXASASSIGNMENT
EMN: 84, 998 554 212 US

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Inventor's Initials: SH [Signature] XG RCW
ROBERT W. STROZER, PLLCPATENT
REEL: 014941 FRAME: 0857PATENT
REEL: 025362 FRAME: 0996

EXECUTED THIS 6 day of January, 2004


Shiao-Chun Tu

STATE OF TEXAS

§

§

COUNTY OF HARRIS

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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




NOTARY PUBLIC IN AND FOR
THE STATE OF TEXAS

ASSIGNMENT
EMN: EL 290 554 112 HJS

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Inventor's Initials: SH [initials] YG KCL

ROBERT W. STROZIER, PLLC

PATENT
REEL: 014941 FRAME: 0858

PATENT
REEL: 025362 FRAME: 0997

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-XG-RCU

ROBERT W. STROZEN, PLLC

PATENT
REEL: 014941 FRAME: 0859

PATENT
REEL: 025362 FRAME: 0998

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

ASSIGNMENT
BMN: EL 999 544 212 US

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Inventor's Initials

SH  YC RCV
ROBERT W. STROZIER, PLLC

RECORDED: 01/30/2004

PATENT
REEL: 014941 FRAME: 0860

RECORDED: 11/15/2010

PATENT
REEL: 025362 FRAME: 0999