

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
George N. Bennett	08/26/2005
Ka-Yiu San	08/26/2005
Henry Lin	10/21/2005

RECEIVING PARTY DATA

Name:	Rice University
Street Address:	6100 Main Street
City:	Houston
State/Country:	TEXAS
Postal Code:	77005

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11200385

CORRESPONDENCE DATA

Fax Number: (713)427-5099

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

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Email: susan.b.jensen@bakernet.com

Correspondent Name: Tamsen Valoir, Ph.D.

Address Line 1: 711 Louisiana, Ste. 3400

Address Line 4: Houston, TEXAS 77002

ATTORNEY DOCKET NUMBER:

31175413-012002

NAME OF SUBMITTER:

Tamsen Valoir, Ph.D.

Total Attachments: 3

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PATENT

REEL: 016765 FRAME: 0644

500059928

CH \$40.00 11200385

former PTO/SB/15 (05/01)

ASSIGNMENT OF APPLICATION	Docket Number (Optional) 31175413-012002
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Whereas, I/We, George N. Bennett of Houston, TX
hereafter referred to as applicant, have invented certain new and useful improvements in

Aerobic Succinate Production in Bacteria

☒ for which an application for a United States Patent was filed on August 9, 2005
Application Number _____

☐ for which an application for a United States Patent was executed on _____, and

Whereas, Rice University of _____ here
referred to as "assignee" whose mailing address is 6100 Main Street, Houston, Texas 77005-1892
is desirous of acquiring the entire right, title and interest in the same:


Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell,
assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
entire rights, title and interest in and to any and all Patents which may be granted therefor in the United States.
I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
behalf; and for the use and behalf of his legal representatives, to the full end of the term for which said Patent
may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.

Executed this 26th day of August, 2005
at 6100 Main Street, Houston TX 77005

George N. Bennett
(Signature)

State of Texas) SS:
County of Harris)
Before me personally appeared said George N. Bennett
and acknowledged the foregoing instrument to be his free act and deed this 26th
day of August, 2005.

Seal



BRIDGET C. SMALLEY
Notary Public, State of Texas
My Commission Expires
April 19, 2009

Bridget Smalley
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required. see below*.

☒ *Total of 3 forms are submitted.

Based on PTO Sample Form (former PTO/SB/15) (08/03)

ASSIGNMENT OF APPLICATION	Docket Number (Optional) 31175413-012002
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Whereas, I/We, Ka-Yiu San of Houston, Texas,
hereafter referred to as applicant, have invented certain new and useful improvements in

Aerobic Succinate Production in Bacteria

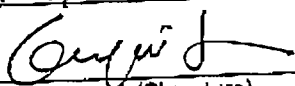
☒ for which a application for a United States Patent was filed on August 9, 2005
Application Number _____

☐ for which an application for a United States Patent was executed on _____, and

Whereas, Rice University of _____ here
referred to as "assignee" whose mailing address is 6100 Main Street, Houston, Texas 77005-1892
is desirous of acquiring the entire right, title and interest in the same;


Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is
acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell,
assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the
entire rights, title and interest in and to any and all Patents which may be granted therefor in the United States,
I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United
States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and
behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent
may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not
been made.

Executed this 26th day of August, 2005
at 6100 Main Street, Houston Tx 77005

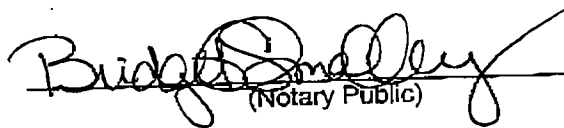

(Signature)

State of Texas) SS:
County of Harris)
Before me personally appeared said Ka-Yiu San
and acknowledged the foregoing instrument to be his free act and deed this 26th
day of August, 2005

Seal



BRIDGET C. SMALLEY
Notary Public, State of Texas
My Commission Expires
April 19, 2009


(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below".

☒ *Total of 3 forms are submitted.

ASSIGNMENT OF APPLICATION

Docket Number (Optional)

31175413-012002

Whereas, I/We, Henry Lin of Houston, TX,
hereafter referred to as applicant, have invented certain new and useful improvements in

Aerobic Succinate Production in Bacteria

- ☒ for which an application for a United States Patent was filed on August 9, 2005
Application Number _____
- ☐ for which an application for a United States Patent was executed on _____, and

Whereas, Rice University of _____ here
referred to as "assignee" whose mailing address is 6100 Main Street; Houston, Texas 77005-1892
is desirous of acquiring the entire right, title and interest in the same;

Now, therefore, in consideration of the sum of one dollars (\$ 1.00), the receipt whereof is acknowledged, and other good and valuable consideration, I/We, the applicant(s), by these presents do sell, assign and transfer unto said assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefor in the United States, I/We hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said assignee, of the entire right, title, and interest in and to the same, for his sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

Executed this 21 day of October, 2005,
at Thousand Oaks, CA

[Signature]
(Signature)

**PLEASE SIGN
& DATE**

State of California) SS:
County of Ventura)

Before me personally appeared said Henry Lin
and acknowledged the foregoing instrument to be his free act and deed this 21
day of October, 2005.

Seal



[Signature]
(Notary Public)

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 3 forms are submitted.