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102935123

To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
**J. Gregory Zeikus
Maris Laivenieks
Claire Vieille
Pil Kim**

2. Name and address of receiving party(ies):

Name: **Board of Trustees of Michigan State University**

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

Internal Address: _____

3. Nature of conveyance:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____
Execution Date: **Zeikus and Vieille 8/05/04
Pil Kim 8/11/04
Laivenieks 8/25/04**

Street Address: **Michigan State University
238 Administration Building**
City: **East Lansing** State: **MI** ZIP: **48824**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent numbers(s):
If this document is being filed together with a new application, the execution date of the application is: _____
A. Patent Application No.(s)
10/911,961

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Ian C. McLeod**
Internal Address: **McLeod & Moyn, P.C.**
02/07/2005 6TON11 00000113 130610 11042977
01 FC:8021 40.00 DA
Street Address: **2190 Commons Parkway**
City: **Okemos** State: **MI** ZIP: **48864**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):\$ **40.00**
☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account
☐ Authorized to be charged to deposit account

8. Deposit account number:
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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.
Ian C. McLeod **08/30/04**
Name of Person Signing Signature Date
Total number of pages including cover sheet, attachments, and document: **5**

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

ASSIGNMENT

WHEREAS, we, J. GREGORY ZEIKUS, MARIS LAIVENIEKS, CLAIRE VIEILLE AND PIL KIM, residing at 2529 Dustin, Okemos, Michigan 48864; 705 Cherry Lane, Apt. 202, East Lansing, Michigan 48823; 2715 Fernwood Avenue, Lansing, Michigan 48912; and 521-39 Mangu-3 Dong, Chungrang-Ku, Seoul, South Korea, respectively have invented certain new and useful improvements in ACTINOBACILLUS SUCCINOGENES SHUTTLE VECTOR AND METHODS OF USE for which an application for United States Letters Patent was filed on August 5, 2004 and assigned Serial No. 10/911,961; and

WHEREAS, Board of Trustees, a constitutional Corporation of MICHIGAN STATE UNIVERSITY, (hereinafter referred to as Assignee) of East Lansing, State of Michigan is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefor in the United States and in any and all foreign countries.

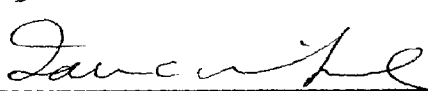
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to us in hand paid, the receipt whereof is hereby acknowledged, and other valuable considerations, we the said J. GREGORY ZEIKUS, MARIS LAIVENIEKS, CLAIRE VIEILLE AND PIL KIM, have sold, assigned and transferred, and by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

We hereby authorize and request the Patent and Trademark Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said Assignee as the Assignee of our entire right, title and interest in and to the same for the sole use and behoof of the said Assignee, its successors and assigns.

FURTHER, we agree that we will communicate to said Assignee or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said Assignee, make all rightful oaths and generally do everything possible to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 5 day of August, 2004.

Signed in the Presence of:




J. Gregory Zeikus

STATE OF MICHIGAN :
COUNTY OF INGHAM : SS.

On this 5th day of August, 2004, personally appeared before me the above named J. Gregory Zeikus to me known and known to me to be the person described in and who executed the foregoing instrument and acknowledged the same to be his free act and deed in and for the purposes set forth in said instrument.

SEAL


Notary Public JAMMIE L. TAYLOR

My Commission Expires: Notary Public, Ingham County, MI
My Commission Expires Oct. 27, 2008

IN TESTIMONY WHEREOF, I have hereunto set my
hand this 25 day of August, 2004

Signed in the Presence of:

Coral D. Vander Jeet M. Laivenieks
Maris Laivenieks

STATE OF MICHIGAN :
COUNTY OF INGHAM : ss.

On this 25 day of August, 2004,
personally appeared before me the above named Maris
Laivenieks to me known and known to me to be the person
described in and who executed the foregoing instrument
and acknowledged the same to be his free act and deed in
and for the purposes set forth in said instrument.

SEAL
Mary Dunn
Notary Public, Clinton County, Michigan
My Commission Expires ~~August 1, 2005~~
My Comm. Expires July 8, 2005
Signature Mary Dunn

IN TESTIMONY WHEREOF, I have hereunto set my
hand this 5 day of August, 2004
Signed in the Presence of:

Tammi L. Taylor Claire Vieille
Claire Vieille

STATE OF MICHIGAN :
COUNTY OF INGHAM : ss.

On this 5th day of August, 2004,
personally appeared before me the above named Claire
Vieille to me known and known to me to be the person
described in and who executed the foregoing instrument
and acknowledged the same to be her free act and deed in
and for the purposes set forth in said instrument.

SEAL
Tammi L. Taylor
Notary Public
My Commission Expires: TAMMI L. TAYLOR
Notary Public, Ingham County, MI
My Commission Expires Oct. 27, 2008

IN TESTIMONY WHEREOF, I have hereunto set my
hand this 11th day of August, 2004

Signed in the Presence of:

Whe
So-Young, cho

2004.8.11
Pil Kim

STATE OF :
COUNTY OF : ss.

On this 11th day of August, 2004,
personally appeared before me the above named Pil Kim to
me known and known to me to be the person described in
and who executed the foregoing instrument and
acknowledged the same to be his free act and deed in and
for the purposes set forth in said instrument.

SEAL
SEN. of Biotechnology

Whe
Notary Public

My Commission Expires: Feb. 28. 2005