

09-15-1998

Form PTO-1595



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U.S. Department of Commerce
Patent and Trademark Office

100831757

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Richard Arakaki
Xiangjun Zhou

Additional name(s) of conveying party(ies) attached? No

3. Nature of conveyance:

Assignment

Execution Date: 06/19/98; 06/30/98

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

University of Hawaii
2800 Woodlawn Drive, Suite 280
Honolulu, Hawaii 96822

Additional name(s) & address(es) attached? No

4. Title of Invention: **Cell-Free Protein Synthesis System With Protein
Translocation And Processing**

Application number(s) or patent number(s):

A. Patent Application No.(s):

09/045,083

B. Patent No.(s):

Additional numbers attached? No

5. Name and address of party to whom correspondence
concerning document should be mailed:Peter G. Carroll
MEDLEN & CARROLL, LLP
220 Montgomery Street, Suite 2200
San Francisco, California 94104

6. Total number of applications and patents involved: 1

7. Total fee(s):

Check(s) in the amount of **\$305.00** enclosed (\$65.00
for filing missing parts, \$40.00 recordation fee and
\$200.00 to cover the second month extension fee).

8. Deposit Account Authorization:

The Commissioner is hereby authorized to charge
any additional fees or credit any overpayment to
Deposit Account No. 08-1290. **An originally
executed duplicate of this transmittal is enclosed
for this purpose.**

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.*Date: August 6, 1998

Signature:

Name: Peter G. CarrollReg. No.: 32,837

Total number of pages including cover sheet, attachments, and document: 4

ASSIGNMENT

WHEREAS, WE, Richard Arakaki and Xiangjun Zhou, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **Cell-Free Protein Synthesis System With Protein Translocation And Processing**

Filing Date: 03/20/98 Serial No.: 09/045,083

WHEREAS, University of Hawaii, a Hawaii corporation, 2800 Woodlawn Drive, Suite 280, Honolulu, Hawaii 96822, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's names to this assignment on the date indicated below.



Richard Arakaki

STATE OF Hawaii)
)
COUNTY OF Honolulu)

ss.

On this 19th day of June, in the year of 1998, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.



NOTARY PUBLIC, First Circuit

State of Hawaii

My commission expires: May 22, 2000

SEAL

ASSIGNMENT

WHEREAS, WE, Richard Arakaki and Xiangjun Zhou, hereinafter referred to as "ASSIGNOR", have invented certain new and useful improvements as described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **Cell-Free Protein Synthesis System With Protein Translocation And Processing**

Filing Date: 03/20/98

Serial No.: 09/045,083

WHEREAS, University of Hawaii, a Hawaii corporation, 2800 Woodlawn Drive, Suite 280, Honolulu, Hawaii 96822, hereinafter referred to as "ASSIGNEE", is desirous of acquiring the entire right, title and interest in said invention and application and in any Letters Patent which may be granted on the same;

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for and in consideration of the sum of One Dollar (\$1.00) lawful money paid to ASSIGNOR by ASSIGNEE and other good and valuable consideration, receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned and transferred, and by these presents does sell, assign and transfer unto said ASSIGNEE, and ASSIGNEE's successors and assigns, all right, title and interest in and to said invention, said application for United States Letters Patent, and any Letters Patent which may hereafter be granted on the same in the United States and all countries throughout the world including any divisions, renewals, continuations in whole or in part, substitutions, conversions, reissues, prolongations or extensions thereof, said interest to be held and enjoyed by said ASSIGNEE as fully and exclusively as it would have been held and enjoyed by said ASSIGNOR had this assignment and transfer not been made, to the full end and term of any Letters Patent.

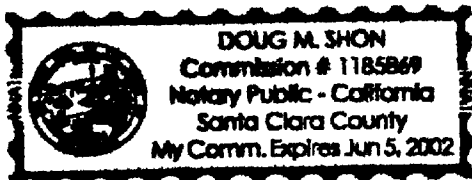
ASSIGNOR further agrees that ASSIGNOR will, without charge to said ASSIGNEE, but at ASSIGNEE's expense, cooperate with ASSIGNEE in the prosecution of said application and/or applications; execute, verify, acknowledge and deliver all such further papers, including applications for Letters Patent and for the reissue thereof, and instruments of assignment and transfer thereof; and will perform such other acts as ASSIGNEE lawfully may request, to obtain or maintain Letters Patent for said invention and improvement in any and all countries, and to vest title thereto in said ASSIGNEE, or ASSIGNEE's successors and assigns.

IN TESTIMONY WHEREOF, ASSIGNOR has hereunto signed ASSIGNOR's names to this assignment on the date indicated below.

Xiangjun Zhou
Xiangjun Zhou

STATE OF Cal.)
COUNTY OF Santa Clara) ss.

On this 30th day of June, in the year of 1998, before me, the undersigned notary public, personally appeared the above-named ASSIGNOR, known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged that he/she executed the same.



SEAL

Doug M. Shon
NOTARY PUBLIC