

7/23/04

07-27-2004

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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office

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

1. Name of conveying party(ies): David H. Thompson July 6, 2004 Christine A. Hrycyna June 9, 2004 Gil U. Lee July 16, 2004 Osman A. Basaran July 12, 2004

2. Name and address of receiving party(ies) Name Purdue Research Foundation Internal Address Street Address 3000 Kent Avenue City West Lafayette State IN Zip 47906

3. Nature of conveyance: [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other Execution Date: See above dates

4. Application number(s) or registration number(s): If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s) 10/491,686 B. Patent No.(s)

Additional name(s) & address(es) attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed: Name James B. Myers Internal Address Woodard, Emhardt, Moriarty, McNett & Henry LLP Street Address 111 Monument Circle Suite 3700 City Indianapolis State IN ZIP 46204

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$40 [] Enclosed [X] Authorized to be charged to deposit account 8. Deposit account number: 23-3030

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. James B. Myers Name of Person Signing James B. Myers Signature July 20, 2004 Date Total number of pages including cover sheet, attachments, and document: 14

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

July 20, 2004 (Date of Deposit) James B. Myers, Jr. Name of Registered Representative James B. Myers Jr. Signature July 20, 2004 Date of Signature

07/26/2004 DRYRME 00000012 233030 10491686 40.00 DA

ASSIGNMENT RECORDATION COVER

1. Name of conveying party(ies): (CONTINUED)

Kinam Park	June 21, 2004
Igal Szeifer	July 6, 2004

ASSIGNMENT

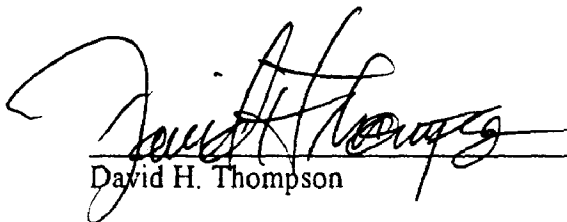
WHEREAS, David H. Thompson of 230 Spring Valley Lane, West Lafayette, IN 47906, Christine A. Hrycyna of 616 South 9th Street, Lafayette, IN 47901, Gil U. Lee of 411 North 400 West, West Lafayette, IN 47906, Osman A. Basaran of 848 Lagrange Street, West Lafayette, IN 47906, Kinam Park of 455 Lagrange Street, West Lafayette, IN 47906, and Igal Szeifer of 18424 Aberdeen Avenue, Homewood, IL 60430, respectively, hereinafter referred to as Assignor, has made a new and useful invention in **DEVICE AND METHODS UTILIZING ASYMMETRIC BIOFUNCTIONALIZED MEMBRANE** for which Assignor has made or will make application for Letters Patent of the United States; and

WHEREAS, **PURDUE RESEARCH FOUNDATION**, hereinafter referred to as Assignee, a corporation of the State of **Indiana** having a principal place of business at **3000 Kent Avenue, West Lafayette, Indiana 47906**, desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent executed by Assignor this 6th day of July, 2004, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Emhardt, Moriarty, McNett & Henry LLP of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. 10/491,686 filed April 2, 2004) the date and serial number of said application when officially known, and Assignor hereby authorizes and requests the Assistant Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.



David H. Thompson

7/6/04

Date

Christine A. Hrycyna

Date

Gil U. Lee

Date

Osman A. Basaran

Date

Kinam Park

Date



Igal Szlerfer

7/6/04

Date

ASSIGNMENT

WHEREAS, David H. Thompson of 230 Spring Valley Lane, West Lafayette, IN 47906, Christine A. Hrycyna of 616 South 9th Street, Lafayette, IN 47901, Gil U. Lee of 411 North 400 West, West Lafayette, IN 47906, Osman A. Basaran of 848 Lagrange Street, West Lafayette, IN 47906, Kinam Park of 455 Lagrange Street, West Lafayette, IN 47906, and Igal Szleifer of 18424 Aberdeen Avenue, Homewood, IL 60430, respectively, hereinafter referred to as Assignor, has made a new and useful invention in **DEVICE AND METHODS UTILIZING ASYMMETRIC BIOFUNCTIONALIZED MEMBRANE** for which Assignor has made or will make application for Letters Patent of the United States; and

WHEREAS, **PURDUE RESEARCH FOUNDATION**, hereinafter referred to as Assignee, a corporation of the State of **Indiana** having a principal place of business at **3000 Kent Avenue, West Lafayette, Indiana 47906**, desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;


NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent executed by Assignor this 9th day of JUNE, 2004, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Emhardt, Moriarty, McNett & Henry LLP of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. 10/491,686 filed April 2, 2004) the date and serial number of said application when officially known, and Assignor hereby authorizes and requests the Assistant Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

David H. Thompson

Date



Christine A. Hrycyna

Date

6-9-04

Before me, the undersigned, a Notary Public for Benton county, State of Indiana, personally appeared Christine A. Hrycyna, and acknowledged the execution of this instrument this 9th day of June 2004.

Donna D. Wilkinson

Gil U. Lee

Date

Osman A. Basaran

Date

Kinam Park

Date

Igal Szleifer

Date

DONNA D. WILKINSON
NOTARY PUBLIC, STATE OF INDIANA
MY COMMISSION EXPIRES FEBRUARY 28, 2007

ASSIGNMENT

WHEREAS, David H. Thompson of 230 Spring Valley Lane, West Lafayette, IN 47906, Christine A. Hrycyna of 616 South 9th Street, Lafayette, IN 47901, Gil U. Lee of 411 North 400 West, West Lafayette, IN 47906, Osman A. Basaran of 848 Lagrange Street, West Lafayette, IN 47906, Kinam Park of 455 Lagrange Street, West Lafayette, IN 47906, and Igal Szleifer of 18424 Aberdeen Avenue, Homewood, IL 60430, respectively, hereinafter referred to as Assignor, has made a new and useful invention in **DEVICE AND METHODS UTILIZING ASYMMETRIC BIOFUNCTIONALIZED MEMBRANE** for which Assignor has made or will make application for Letters Patent of the United States; and

WHEREAS, **PURDUE RESEARCH FOUNDATION**, hereinafter referred to as Assignee, a corporation of the State of **Indiana** having a principal place of business at **3000 Kent Avenue, West Lafayette, Indiana 47906**, desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent executed by Assignor this 21st day of June, 2004, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Emhardt, Moriarty, McNett & Henry LLP of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. 10/491,686 filed April 2, 2004) the date and serial number of said application when officially known, and Assignor hereby authorizes and requests the Assistant Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

David H. Thompson

Date

Christine A. Hrycyna


Date

Gil U. Lee

Date

Osman A. Basaran

Date



Kinam Park

6/21/04

Date

Igal Szeifer

Date

County of Tippecanoe)

ss:

State of Indiana)

On this 21st day of June 2004, before me a Notary Public in and for the County and State aforesaid, personally appeared **Kinam Park**, to me known and known to me to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be of his free act and deed.

COURTNEY A HEDGE
NOTARY PUBLIC STATE OF INDIANA
BOONE COUNTY
MY COMMISSION EXP. AUG. 17, 2009

(SEAL)

Courtney A Hedge
Notary Public

Courtney A. Hedge

My commission Expires August 17, 2009

ASSIGNMENT

WHEREAS, David H. Thompson of 230 Spring Valley Lane, West Lafayette, IN 47906, Christine A. Hrycyna of 616 South 9th Street, Lafayette, IN 47901, Gil U. Lee of 411 North 400 West, West Lafayette, IN 47906, Osman A. Basaran of 848 Lagrange Street, West Lafayette, IN 47906, Kinam Park of 455 Lagrange Street, West Lafayette, IN 47906, and Igal Szeifer of 18424 Aberdeen Avenue, Homewood, IL 60430, respectively, hereinafter referred to as Assignor, has made a new and useful invention in **DEVICE AND METHODS UTILIZING ASYMMETRIC BIOFUNCTIONALIZED MEMBRANE** for which Assignor has made or will make application for Letters Patent of the United States; and

WHEREAS, **PURDUE RESEARCH FOUNDATION**, hereinafter referred to as Assignee, a corporation of the State of **Indiana** having a principal place of business at **3000 Kent Avenue, West Lafayette, Indiana 47906**, desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent executed by Assignor this 12 day of July, 2004, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Emhardt, Moriarty, McNett & Henry LLP of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. 10/491,686 filed April 2, 2004) the date and serial number of said application when officially known, and Assignor hereby authorizes and requests the Assistant Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

~~David H. Thompson~~

~~Date~~

~~Christine A. Hrycyna~~

~~Date~~

~~Gil U. Lee~~

~~Date~~


Osman A. Basaran

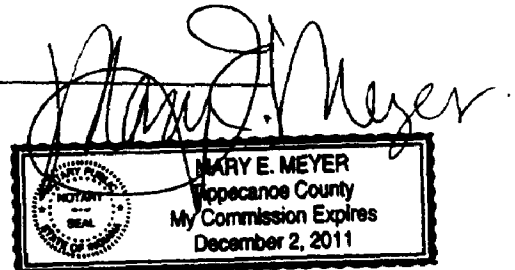
7/12/2004
Date

~~Kinam Park~~

~~Date~~

~~Igal Szleifer~~

~~Date~~



ASSIGNMENT

WHEREAS, David H. Thompson of 230 Spring Valley Lane, West Lafayette, IN 47906, Christine A. Hrycyna of 616 South 9th Street, Lafayette, IN 47901, Gil U. Lee of 411 North 400 West, West Lafayette, IN 47906, Osman A. Basaran of 848 Lagrange Street, West Lafayette, IN 47906, Kinam Park of 455 Lagrange Street, West Lafayette, IN 47906, and Igal Szleifer of 18424 Aberdeen Avenue, Homewood, IL 60430, respectively, hereinafter referred to as Assignor, has made a new and useful invention in **DEVICE AND METHODS UTILIZING ASYMMETRIC BIOFUNCTIONALIZED MEMBRANE** for which Assignor has made or will make application for Letters Patent of the United States; and

WHEREAS, **PURDUE RESEARCH FOUNDATION**, hereinafter referred to as Assignee, a corporation of the State of **Indiana** having a principal place of business at **3000 Kent Avenue, West Lafayette, Indiana 47906**, desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignor in hand paid, the receipt of which is hereby acknowledged, Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent executed by Assignor this 16 day of JULY, 2004, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignor hereby authorizes and requests the firm of Woodard, Emhardt, Moriarty, McNett & Henry LLP of Bank One Center Tower, 111 Monument Circle, Suite 3700, Indianapolis, Indiana 46204-5137 to insert here in parentheses (Serial No. 10/491,686 filed April 2, 2004) the date and serial number of said application when officially known, and Assignor hereby authorizes and requests the Assistant Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.


Assignor agrees to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

~~_____~~
David H. Thompson

Date

~~_____~~
Christine A. Hrycyna

Date



Gil U. Lee

7/15/2004

Date

~~_____~~
Osman A. Basaran

Date

~~_____~~
Kinam Park

Date

~~_____~~
Igal Szleifer

Date

UNITED STATES OF AMERICA

STATE OF INDIANA)
) ss.
COUNTY OF TIPPECANOE)

On this 16 day of July, 2004, personally appeared before me Gil U. Lee to me known to me to be the individual described and who executed this foregoing instrument, and who acknowledged to me that he executed the same.

Courtney A Hedge

Notary Public

County of Residence: Boone

My Commission expires on August 17, 2009.

(Seal)
COURTNEY A HEDGE
NOTARY PUBLIC STATE OF INDIANA
BOONE COUNTY
MY COMMISSION EXP. AUG. 17, 2009