

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

## RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

Attorney Docket No. 110.03020101

**PATENTS ONLY**

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

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

- 1) Kay S. Faaberg
- 2) Jun Han
- 3) Gongping Liu
- 4) Yue Wang

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ License  
☐ Other \_\_\_\_\_

Execution Date: 1) 11/3/06 2) 11/3/06 3) 11/7/06 4) 11/3/06

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

Name: Regents of the University of Minnesota

Street Address: 1000 Westgate Drive  
Suite 160

City: Saint Paul State: MN ZIP: 55114-8658

Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application number(s) or patent number(s):**

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.: 11/922,798

B. Patent No(s).

**Title: PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE**Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**

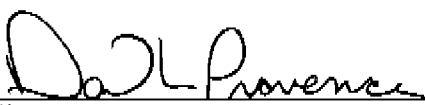
Name: David L. Provence  
 Address: MUETING, RAASCH & GEBHARDT, P.A.  
 P.O. Box 581415  
 Minneapolis, MN 55458-1415

**Customer Number 26813****6. Total number of applications and patents involved: 1****7. Total fee (37 CFR §3.41): \$40.00**

☐ Enclosed  
☒ Authorized to be charged to deposit account

**8. Please charge any additional fees or credit any overpayments to Deposit account number: 13-4895****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 an original or a true copy of the original document.*

David L. Provence  
 Name of Person Signing

  
 Signature

September 08, 2008  
 Date

Total number of pages including cover sheet, attachments, and document(s): 17

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
 Director, United States Patent and Trademark Office  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

700383633

**PATENT**  
**REEL: 021498 FRAME: 0452**

CH \$40.00 134895 11922798

Docket 110.03020201

**ASSIGNMENT**

Whereas We, Kay S. Faaberg, Jun Han, Gongping Liu, and Yue Wang, with residences and citizenships as indicated below; have made an invention in

**PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE**

International Appln. No.: PCT/US2006/024355  
U.S. Provisional Appln. No.: 60/694,021

International Filing Date: 23 June 2006  
Filing Date: 24 June 2005

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto Regents of the University of Minnesota ("Company"), a constitutional corporation under the laws of the State of Minnesota, having its principal office at 450 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, MN 55455, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Patents, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Patents, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any continued prosecution application, divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Patents, Utility Models, or Inventors' Certificates in any and all countries;

**Assignment**

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Int'l Appln. No. PCT/US2006/024355

Int'l Filing Date: 23 June 2006

For: PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE

In witness whereof, we have hereunto signed our names on the days and years set forth below.

Kay S. Faaberg 11/3/06  
Name: Kay S. Faaberg Date  
Address: 5640 Pillsbury Avenue So., Minneapolis, Minnesota 55419  
Citizenship: US

STATE OF MINNESOTA )  
COUNTY OF RAMSEY ) ss.

On this 3 day of NOVEMBER 2006, before me personally appeared Kay S. Faaberg to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Cynthia M. Irons  
Notary Public

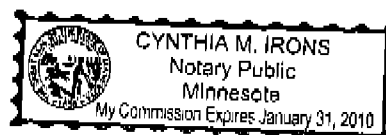


Jun Han 11/3/2006  
Name: Jun Han Date  
Address: 2031 Knapp Avenue, Apt. E-3, St. Paul, Minnesota 55108  
Citizenship: China

STATE OF Minnesota )  
COUNTY OF Ramsey ) ss.

On this 3 day of November 2006, before me personally appeared Jun Han to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Cynthia M. Irons  
Notary Public



Assignment

Page 3 of 3

Int'l Appln. No. PCT/US2006/024355

Int'l Filing Date: 23 June 2006

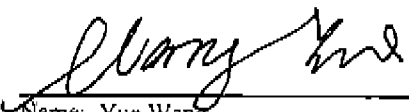
For: PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE

Name: Gongping Liu  
Address: 5175 Deer Trail West, St. Paul, Minnesota 55126  
Citizenship: China

Date

STATE OF \_\_\_\_\_ )  
 ) ss.  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2006, before me personally appeared Gongping Liu to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public

11/3/2006

Name: Yue Wang  
Address: 1313 Gibbs Avenue, St. Paul, Minnesota 55108  
Citizenship: China

Date

STATE OF Minnesota )  
 ) ss.  
COUNTY OF Ramsey )

On this 3 day of November 2006, before me personally appeared Yue Wang to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

  
Notary Public



Docket 110.03020201

**ASSIGNMENT**

Whereas We, Kay S. Faaberg, Jun Han, Gongping Liu, and Yue Wang, with residences and citizenships as indicated below: have made an invention in

**PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE**

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Filing Date: 24 June 2005

Now, therefore, for good and valuable consideration, receipt of which is acknowledged, we have individually and jointly agreed to assign and transfer and do hereby assign and transfer unto Regents of the University of Minnesota ("Company"), a constitutional corporation under the laws of the State of Minnesota, having its principal office at 450 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, MN 55455, its successors and assigns, the entire right, title, and interest in and to said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in said invention made by us or any of us or made jointly with others (provided any such improvement is made during, or within one year after the termination of, the employment by the Company of whichever of us, solely or jointly with one or more others, has made the same), and in and to any and all Patents, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Patents, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any continued prosecution application, divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by us or any of us had this assignment and transfer not been made;

We do further agree for ourselves and for our heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as we lawfully may, that may be deemed necessary by the Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Patents, Utility Models, or Inventors' Certificates in any and all countries;

**Assignment**

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Int'l Appl. No. PCT/US2006/024355

Int'l Filing Date: 23 June 2006

For: PRRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE

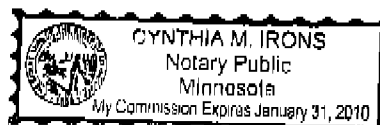
In witness whereof, we have hereunto signed our names on the days and years set forth below.

Kay S. Faaborg 11/3/06  
Name: Kay S. Faaborg Date  
Address: 5640 Pillsbury Avenue So., Minneapolis, Minnesota 55419  
Citizenship: US

STATE OF MINNESOTA )  
COUNTY OF RAMSEY ) ss.

On this 3 day of NOVEMBER, 2006, before me personally appeared Kay S. Faaborg to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Cynthia M. Irons  
Notary Public



Jun Han 11/3/2006  
Name: Jun Han Date  
Address: 2031 Knapp Avenue, Apt. E-3, St. Paul, Minnesota 55108  
Citizenship: China

STATE OF Minnesota )  
COUNTY OF Ramsey ) ss.

On this 3 day of November, 2006, before me personally appeared Jun Han to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

Cynthia M. Irons  
Notary Public



*Assignment*

Page 3 of 3

Int'l Appln. No. PCT/US2006/024355

Int'l Filing Date: 23 June 2006

For: PPRS VIRUSES, INFECTIOUS CLONES, MUTANTS THEREOF, AND METHODS OF USE

11/07/2006

Name: Gongping Liu

Date

Address: 5175 Deer Trail West, St. Paul, Minnesota 55126

Citizenship: China

STATE OF Minnesota )COUNTY OF Hennepin ) ss.

On this 7 day of November 2006, before me personally appeared Gongping Liu to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

  
Notary Public

Name: Yue Wang

Date

Address: 1313 Gibbs Avenue, St. Paul, Minnesota 55108

Citizenship: China

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_ 2006, before me personally appeared Yue Wang to me known to be the person described in and who executed the foregoing instrument, and he/she executed the same for the uses and purposes therein set forth.

\_\_\_\_\_  
Notary Public