

FORM-PTO-1595  
1-31-92TRANSMITTAL OF DOCUMENT FOR RECORDATION  
PATENTS ONLY

Atty. Docket PHA 1070 US

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

1. Name of conveying party(ies): Peiyuan Wang,  
Lieven J. Stuyver, Kyoichi A. Watanabe, Abdalla  
Hassan, Byoung-Kwon Chun And Laurent Hollecker  
Additional name(s) of conveying party(ies) attached?☐ Yes ☒ No

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

Name: Pharmasset, Ltd.Foreign Address: The Financial Services Center,  
Suite 111, Bishop's Court Hill, St. Michael, Barbados,  
West Indies

Domestic Address:

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

Additional name(s) &amp; address(es) attached?

☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
Other \_\_\_\_\_Execution Date: 9/12/03, 10/8/03, 8/27/03, 9/12/03,  
8/19/03, 8/20/03

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: 6/24/99A. Patent Application No.(s) 60/453,716  
10/632,997

B Patent Registration No. (s)

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence  
concerning document should be mailed:Name: Sherry M. Knowles, Esq.191 Peachtree StreetAtlanta, Georgia 30303-1763Telephone No.: 404-572-4600Facsimile No.: 404 572-5100

6. Number of applications and patents involved:

two7. Total fee (37 CFR 3.41): \$ 80☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number

11-0980

(Attach duplicate copy of this page if paying by deposit account):

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  
of the original document.*Sally Sexton

Name of Person Signing

Sally Sexton  
SignatureDecember 5, 2003

Date

Total number of pages comprising cover sheet: 1

CH \$80.00 110980 60463716

ASSIGNMENT

WHEREAS, WE, PEIYUAN WANG, LIEVEN J. STUYVER, KYOICHI A. WATANABE, ABDALLA HASSAN, BYOUNG-KWON CHUN AND LAURENT HOLLECKER have invented certain improvements in "Compounds with the Bicyclo-[4.2.1] Nonane System for the Treatment of Flaviviridae Infections" for which we have executed United States provisional application no. 60/453,716 on August 1, 2002; and non-provisional application no. 10/632,997 on August 1, 2003 and

WHEREAS, PHARMASSET LTD. a Barbados corporation having an office at The Financial Services Center, Bishop's Ct. Hill,, St. Michael, BARBADOS, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration paid by PHARMASSET LTD., the receipt and sufficiency of which are hereby acknowledged, I, PEIYUAN WANG, have sold, assigned, transferred and conveyed and by these presents do hereby sell, assign, transfer and convey unto PHARMASSET LTD., in and for the United States and its territories and for foreign countries, the entire right, title and interest in and to said provisional application and said application for United States Letters Patent, in and to the invention therein set forth and in and to any patent which may issue on said application for United States Letters Patent or any application, reissue, renewal, division, continuation or continuation-in-part thereof; or any foreign counterpart thereof or any other application that claims priority to the above-application, and I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute without further consideration, any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance hereby made or intended to be made.

PHA 1070

PATENT  
REEL: 014177 FRAME: 0044

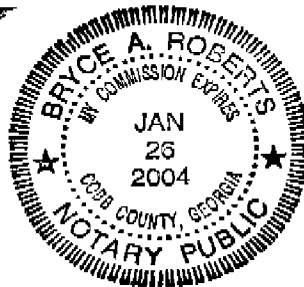
IN WITNESS WHEREOF, I have hereunto set my hand and seal this 12 day of  
September, 2003.

Peyuan Wang  
PEYUAN WANG

STATE OF GEORGIA                    )  
  )     ss.  
COUNTY OF COBB                )

On this 12<sup>th</sup> day of September, 2003, before me, a notary public, came  
Peyuan Wang, to me known and known to be the individual described in and  
who executed the foregoing assignment, and he duly acknowledged the same to be his free act  
and deed.

(SEAL)



Bryce A. Roberts  
Notary Public

My commission expires: 26-JAN-04

PHA 1070

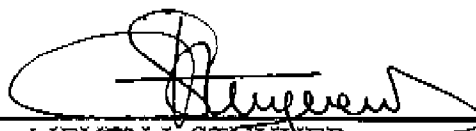
# ASSIGNMENT

WHEREAS, WE, PEIYUAN WANG, LIEVEN J. STUYVER, KYOICHI A. WATANABE, ABDALLA HASSAN, BYOUNG-KWON CHUN AND LAURENT HOLLECKER have invented certain improvements in "Compounds with the Bicyclo-[4.2.1] Nonane System for the Treatment of Flaviviridae Infections" for which we have executed United States provisional application no. 60/453,716 on August 1, 2002; and non-provisional application no. 10/632,997 on August 1, 2003 and

WHEREAS, PHARMASSET LTD. a Barbados corporation having an office at The Financial Services Center, Bishop's Ct. Hill,, St. Michael, BARBADOS, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration paid by PHARMASSET LTD., the receipt and sufficiency of which are hereby acknowledged, I, LIEVEN J. STUYVER, have sold, assigned, transferred and conveyed and by these presents do hereby sell, assign, transfer and convey unto PHARMASSET LTD., in and for the United States and its territories and for foreign countries, the entire right, title and interest in and to said provisional application and said application for United States Letters Patent, in and to the invention therein set forth and in and to any patent which may issue on said application for United States Letters Patent or any application, reissue, renewal, division, continuation or continuation-in-part thereof; or any foreign counterpart thereof or any other application that claims priority to the above-application, and I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute without further consideration, any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance hereby made or intended to be made.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 8 day of  
October, 2003.

  
LIEVEN J. STOYVER

STATE OF GEORGIA                    )  
  )  
COUNTY OF COBB                    )      ss.

On this 8th day of October, 2003, before me, a notary public, came  
Lieven J. Stoyver, to me known and known to be the individual described in and  
who executed the foregoing assignment, and he duly acknowledged the same to be his free act  
and deed.

(SEAL)



  
Notary Public

My commission expires: 26-JAN-04

### ASSIGNMENT

WHEREAS, WE, PEIYUAN WANG, LIEVEN J. STUYVER, KYOICHI A. WATANABE, ABDALLA HASSAN, BYOUNG-KWON CHUN AND LAURENT HOLLECKER have invented certain improvements in "Compounds with the Bicyclo-[4.2.1] Nonane System for the Treatment of Flaviviridae Infections" for which we have executed United States provisional application no. 60/453,716 on August 1, 2002; and non-provisional application no. 10/632,997 on August 1, 2003 and

WHEREAS, PHARMASSET LTD. a Barbados corporation having an office at The Financial Services Center, Bishop's Ct. Hill,, St. Michael, BARBADOS, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration paid by PHARMASSET LTD., the receipt and sufficiency of which are hereby acknowledged, I, KYOICHI A. WATANABE, have sold, assigned, transferred and conveyed and by these presents do hereby sell, assign, transfer and convey unto PHARMASSET LTD., in and for the United States and its territories and for foreign countries, the entire right, title and interest in and to said provisional application and said application for United States Letters Patent, in and to the invention therein set forth and in and to any patent which may issue on said application for United States Letters Patent or any application, reissue, renewal, division, continuation or continuation-in-part thereof; or any foreign counterpart thereof or any other application that claims priority to the above-application, and I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute without further consideration, any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance hereby made or intended to be made.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 27 day of  
August, 2003.


  
KYOICHI A. WATANABE

STATE OF GEORGIA                    )  
  )  
COUNTY OF COBB                    )      ss.

On this 27<sup>th</sup> day of August, 2003, before me, a notary public, came  
Kyoichi A. Watanabe to me known and known to be the individual described in and  
who executed the foregoing assignment, and he duly acknowledged the same to be his free act  
and deed.

(SEAL)



  
Notary Public

My commission expires: 26-JAN-04

ASSIGNMENT

WHEREAS, WE, PEIYUAN WANG, LIEVEN J. STUYVER, KYOICHI A. WATANABE, ABDALLA HASSAN, BYOUNG-KWON CHUN AND LAURENT HOLLECKER have invented certain improvements in "Compounds with the Bicyclo-[4.2.1] Nonane System for the Treatment of Flaviviridae Infections" for which we have executed United States provisional application no. 60/453,716 on August 1, 2002; and non-provisional application no. 10/632,997 on August 1, 2003 and

WHEREAS, PHARMASSET LTD. a Barbados corporation having an office at The Financial Services Center, Bishop's Ct. Hill,, St. Michael, BARBADOS, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration paid by PHARMASSET LTD., the receipt and sufficiency of which are hereby acknowledged, I, ABDALLA HASSAN, have sold, assigned, transferred and conveyed and by these presents do hereby sell, assign, transfer and convey unto PHARMASSET LTD., in and for the United States and its territories and for foreign countries, the entire right, title and interest in and to said provisional application and said application for United States Letters Patent, in and to the invention therein set forth and in and to any patent which may issue on said application for United States Letters Patent or any application, reissue, renewal, division, continuation or continuation-in-part thereof; or any foreign counterpart thereof or any other application that claims priority to the above-application, and I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute without further consideration, any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance hereby made or intended to be made.

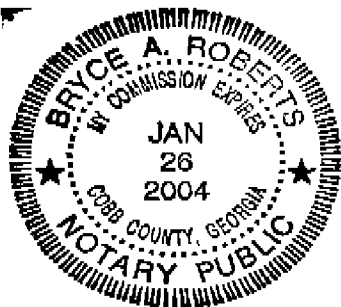


IN WITNESS WHEREOF, I have hereunto set my hand and seal this 12<sup>th</sup> day of September, 2003.

Abdalla Hassan.  
ABDALLA HASSAN

STATE OF GEORGIA                    )  
  )  
COUNTY OF COBB                )      ss.

On this 12<sup>th</sup> day of September, 2003, before me, a notary public, came Abdalla Hassan, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.



Bryce A. Roberts  
Notary Public

My commission expires: 26-JAN-04

# ASSIGNMENT

WHEREAS, WE, PEIYUAN WANG, LIEVEN J. STUYVER, KYOICHI A. WATANABE, ABDALLA HASSAN, BYOUNG-KWON CHUN AND LAURENT HOLLECKER have invented certain improvements in "Compounds with the Bicyclo-[4.2.1] Nonane System for the Treatment of Flaviviridae Infections" for which we have executed United States provisional application no. 60/453,716 on August 1, 2002; and non-provisional application no. 10/632,997 on August 1, 2003 and

WHEREAS, PHARMASSET LTD. a Barbados corporation having an office at The Financial Services Center, Bishop's Ct. Hill,, St. Michael, BARBADOS, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration paid by PHARMASSET LTD., the receipt and sufficiency of which are hereby acknowledged, I, BYOUNG-KWON CHUN, have sold, assigned, transferred and conveyed and by these presents do hereby sell, assign, transfer and convey unto PHARMASSET LTD., in and for the United States and its territories and for foreign countries, the entire right, title and interest in and to said provisional application and said application for United States Letters Patent, in and to the invention therein set forth and in and to any patent which may issue on said application for United States Letters Patent or any application, reissue, renewal, division, continuation or continuation-in-part thereof; or any foreign counterpart thereof or any other application that claims priority to the above-application, and I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute without further consideration, any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance hereby made or intended to be made.

PHA 1070

PATENT  
REEL: 014177 FRAME: 0052

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19<sup>th</sup> day of

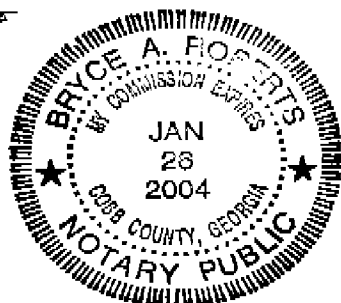
August, 2003.



BYOUNG-KWON CHUN

STATE OF GEORGIA                    )  
  )       ss.  
COUNTY OF COBB                 )

On this 19<sup>th</sup> day of August, 2003, before me, a notary public, came Byoung-Kwon Chun to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.



  
Notary Public

My commission expires: 26-JAN-03

# ASSIGNMENT

WHEREAS, WE, PEIYUAN WANG, LIEVEN J. STUYVER, KYOICHI A. WATANABE, ABDALLA HASSAN, BYOUNG-KWON CHUN AND LAURENT HOLLECKER have invented certain improvements in "Compounds with the Bicyclo-[4.2.1] Nonane System for the Treatment of Flaviviridae Infections" for which we have executed United States provisional application no. 60/453,716 on August 1, 2002; and non-provisional application no. 10/632,997 on August 1, 2003 and

WHEREAS, PHARMASSET LTD. a Barbados corporation having an office at The Financial Services Center, Bishop's Ct. Hill,, St. Michael, BARBADOS, desires to purchase same;

NOW, THEREFORE, in consideration of the sum of Five Dollars (\$5.00) and other good and valuable consideration paid by PHARMASSET LTD., the receipt and sufficiency of which are hereby acknowledged, I, LAURENT HOLLECKER, have sold, assigned, transferred and conveyed and by these presents do hereby sell, assign, transfer and convey unto PHARMASSET LTD., in and for the United States and its territories and for foreign countries, the entire right, title and interest in and to said provisional application and said application for United States Letters Patent, in and to the invention therein set forth and in and to any patent which may issue on said application for United States Letters Patent or any application, reissue, renewal, division, continuation or continuation-in-part thereof; or any foreign counterpart thereof or any other application that claims priority to the above-application, and I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute without further consideration, any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect the sale, assignment, transfer and conveyance hereby made or intended to be made.

PHA 1070

PATENT  
REEL: 014177 FRAME: 0054

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 20<sup>th</sup> day of

August, 2003.

LAURENT HOLLECKER

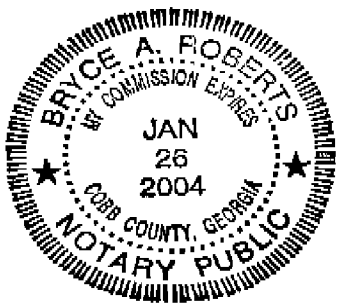
STATE OF GEORGIA

COUNTY OF CORE

**\$5.**

On this 20<sup>th</sup> day of August, 2003, before me, a notary public, came Laurent Hollecker, to me known and known to be the individual described in and who executed the foregoing assignment, and he duly acknowledged the same to be his free act and deed.

(SEAL)



Notary Public

My commission expires: 26-Jul-03

PHA 1070

**RECORDED: 12/05/2003**

**PATENT**  
**REEL: 014177 FRAME: 0055**

\*\*\* TOTAL DGE: 16 \*\*\*