



05-20-2004



102789317

5-17-04

Form PTO-1595

(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

RECORDATION

EET

U.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office**PATENTS ONLY**

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

1. Name of conveying party(ies):

Judi BRYANT
Monica J. KOCHANNY
Shendong YUAN
Seock-Kyo KHIM
Brad O. BUCKMANN
Damian O. ARNAIZ
UIF BOMER
Hans BRIEM
Peter ESPERLING

Christoph HUWE
Joachim KUHNKE
Martina SCHAFER
Lars WORTMANN
Dirk KOSEMUND
Emil ECKLE
Richard I. FELDMAN
Gary B. PHILLIPS

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

Name: Schering Aktiengesellschaft
Street Address: Muellerstrasse 178
City: Berlin State: GERMANY Zip:D-13533

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of Conveyance:**☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name

Execution Date: April 14, 2004; April 20, 2004;
April 16, 2004; April 15, 2004; April 14, 2004; April 16,
2004; April 21, 2004; April 29, 2004; May 10, 2004;
April 29, 2004; April 28, 2004; April 21, 2004; April 21,
2004; May 6, 2004; May 7, 2004

No additional names(s) or 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.(s)

10/722,591

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No**5. Name and address of party to whom correspondence concerning document should be mailed:**

Name: MILLEN, WHITE, ZELANO
& BRANIGAN, P.C.
Address: Arlington Court Plaza I
Suite 1400
2200 Clarendon BLVD.
Arlington, VA 22201

6. Total number of applications and patents involved: 1

7. Total fee (37CFR 3.41)

\$40.00

☒ Enclosed☐ Authorized to be charged to deposit account**8. DEPOSIT ACCOUNT NO. 13-3402**

(Attach duplicate copies 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 is a true copy of the original document.

Anthony J Zelano

Names of Person Signing

Signature

May 17, 2004

Date

Total number of pages including cover sheet, attachments, and documents 11

Attorney Docket No. SCH-1995

05/19/2004 DBYRME 00000080 10722591

01 FC:8021

40.00 OP

PATENT
REEL: 015336 FRAME: 0047

ASSIGNMENT

ATTY. DOCKET NO. SCH-1995

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

CHK-, PDK- AND AKT-INHIBITORY PYRIMIDINES, THEIR PRODUCTION AND USE AS PHARMACEUTICAL AGENTS

and for which one or more of the following apply:

- ☐ U.S. Provisional Application Serial No. was filed in the United States Patent and Trademark Office on
- ☐ A U.S. Non-Provisional
- ☐ application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
- ☒ Application Serial No. 10/722,591 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 28, 2003
- ☐ as International Application No. was filed on , designating the United States.

AND WHEREAS

Schering Aktiengesellschaft
Mueltenstrasse 178
Berlin
GERMANY

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.


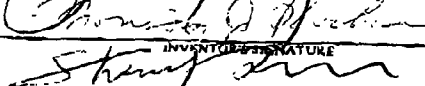
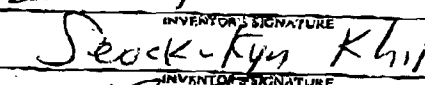
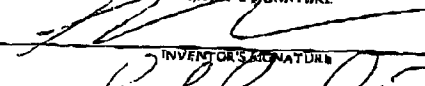
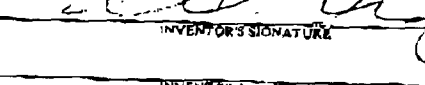
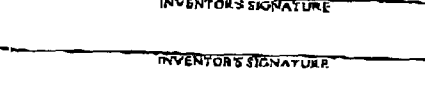
NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all renewals, reissues, reexaminations and extensions thereof, any and all Letters Patent which may be granted therefor, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same in said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelano & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Judi-BRYANT		14-April-2004
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Monica J. KOCHANNY		20-April-2004
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Shendong YUAN		16-April-2004
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Seock-Kyu KHM		15-April-2004
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Brad O. BUCKMAN		14-Apr-2004
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Damian O. ARNAIZ		16-Apr-2004
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Ulf BOMER		
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Hans BRIEM		
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Peter ESPERLING		

210 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Christoph HUWE		
211 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Joachim KUHNKE		
212 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Marina SCHAFER		
213 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Lars WORTMANN		
214 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND		
215 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Emil ECKLE		
216 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Richard I. FELDMAN	<i>Rich Feldman</i>	4/23/04
217 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Gary B. PHILLIPS	<i>Gary B. Phillips</i>	4/16/04
218 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE

GESAMT SEITEN 06

ASSIGNMENT

ATTY. DOCKET NO. SCH-1995

WHEREAS the below named inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinafter referred to as the ASSIGNOR invented a certain improvement(s) relating to

CHK-, PDK- AND AKT-INHIBITORY PYRIMIDINES, THEIR PRODUCTION AND USE AS PHARMACEUTICAL AGENTS

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☐ A U.S. Non-Provisional

☐ application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
☒ Application Serial No. 10/722,591 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 28, 2003
☐ as International Application No. was filed on , designating the United States.

AND WHEREAS

Schering Aktiengesellschaft
 Muellerstrasse 178
 Berlin
 GERMANY

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

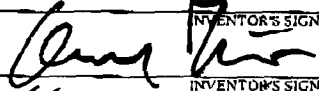
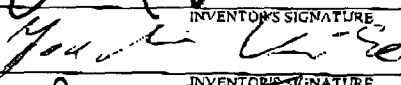
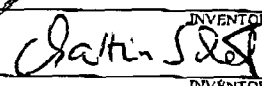
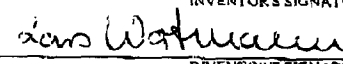
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IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Judi BRYANT		
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Monica J. KOCHANNY		
203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Shendong YUAN		
204 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Seock-Kyu KHIM		
205 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Brad O. BUCKMAN		
206 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Damian O. ARNAIZ		
207 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Ulf BOMER	<i>Ulf Bomer</i>	April 21 st 2004
208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Hans BRIEM	<i>Hans Briem</i>	April 23 rd 2004
209 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Peter ESPERLING		

210 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Christoph HUWE		29-Apr-04
211 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Joachim KUHNKE		April 18 th , 2004
212 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Martina SCHAFER		21/04/04
213 FULL NAME OF FOURTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Lars WORTMANN		21/04/04
214 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND		
215 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Emil ECKLE		
216 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Richard I. FELDMAN		
217 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Gary B. PHILLIPS		
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ASSIGNMENT

ATTY. DOCKET NO SCH-1995

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101 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Judi BRYANT		
102 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Monica J. KOCHANNY		
103 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Shendong YUAN		
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Seock-Kyu KHIM		
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Brad O. BUCKMAN		
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Damian O. ARNAIZ		
107 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Jill BOMER		
108 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Ians BRIEN		
109 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
for: ESPERLING	<i>Peter Esperling</i>	10/15/04

210 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Christoph HUWE		
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Joachim KUHNKE		
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Lars WORTMANN		
214 FULL NAME OF FIFTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Dirk KOSEMUND	<i>Dirk Kosemund</i>	05/06/2004
215 FULL NAME OF SIXTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
Emil ECKLE		
216 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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- ☐ A U.S. Non-Provisional
- ☐ application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date.
- ☒ Application Serial No. 10/722,591 for Letters Patent was filed in the U.S. Patent and Trademark Office on November 28, 2003
- ☒ as International Application No. _____ was filed on _____ designating the United States.

AND WHEREAS

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Muellerstrasse 178
Berlin
GERMANY

hereinafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, title, and interest in and to said invention and all application(s) listed above, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application(s), including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention rights or benefits accruing or to accrue with respect to the filing or securing of patents in the United States and/or any countries foreign thereto concerning said invention, SAID ASSIGNEE, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all earlier priority rights (U.S. and foreign), divisions and continuations thereof, any and all Letters Patent which may be granted therefor, including any and all renewals, reissues, reexaminations and extensions thereof, including the right to sue for damages occurring before the assignment, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations and extensions thereof, for the use and benefit of ASSIGNEE and its assigns and legal representatives, in as ample and beneficial a manner to all intents and purposes as the ASSIGNOR might or could have held and enjoyed the same, if the assignment had not been made.

AND ASSIGNOR hereby agrees to execute all papers that may be necessary to file applications in the United States and foreign countries for said invention and to assign the same to said ASSIGNEE, its assigns and legal representatives and to execute any other papers that may be needed in connection with filing said applications and securing Letters Patents thereon.

AND ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks to issue a Letters Patent on said application, and on any and all divisions and continuations thereof, to ASSIGNEE, its assigns and legal representatives, in accordance herewith.

The undersigned hereby grant(s) the law firm of Millen, White, Zelanu & Branigan, P.C. the power to insert on this assignment information which may be necessary or desirable in order for the United States Patent and Trademark Office to properly record this document.

IN TESTIMONY WHEREOF this assignment is executed by ASSIGNOR

201 FULL NAME OF SOLE OR FIRST NAMED INVENTOR	INVENTOR'S SIGNATURE	DATE
Judi BRYANT		
202 FULL NAME OF SECOND JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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203 FULL NAME OF THIRD JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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208 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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216 FULL NAME OF SEVENTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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217 FULL NAME OF EIGHTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE
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218 FULL NAME OF NINTH JOINT INVENTOR	INVENTOR'S SIGNATURE	DATE