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| Name (line 1)  | Johannes  |   | Month Day Year<br>09 23 2002  |
| Name (line 2)  | PLATZEK   |   |   |
| Second Party   | L   |   | Execution Date  |
| Name (line 1)  | Heribert  |   | Month Day Year<br>09 26 2002  |
| Name (line 2)  | SCHMITT-WILLICH   |   |   |
| Receiving Party  |   | Mark if additional names  | of receiving parties attached   |
| Name (line 1)  | Schering AG   |   | If document to be recorded  |
| Name (line 2)  |   |   | is an assignment and the receiving party is not   |
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| •  | resentative Name and A  |   | iving Party only.   |
| Name   | Millen, White, Zelano & Branigan,   | P.C.  |   |
| Address (line 1)   | 2200 Clarendon Boulevard  |   |   |
| Address (line 2)   | Suite 1400  |   |   |
| Address (line 3)   | Arlington, VA 22201   |   |   |
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| Correspondent   | Name and Addres  | <b>S</b> Area Code and Telephon                                | e Number                     | (703) 243-6333  |
| Name  | Millen, White, Zelan   | no & Branigan, P.C.  | <u> </u>                     |   |
| Address (line 1)  | 2200 Clarendon Bo  | ulevard  |                              | ]   |
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# ASSIGNMENT

ATTY DOCKET NO LEDER-6

WHEREAS the below named inventor (if only one inventor is named below) or inventor) (if plutal inventors are named below) hereinatter referred to as the ASSIGNOR invented a centain improvement(3) eductor of gould be of gou

### MACROCYCLIC METAL COMPLEXES AND THEIR USE FOR THE PRODUCTION OF CONJUGATES WITH BIOMOLECULES

fur which an application for Leners Patent to be filed in the United States Patent and Trademark Office was executed on even date

for which U.S. Application Senal No. 10/198,046 for Letters Patent was filed in the U.S. Patent and Trademark Office on July 19, 2002

for which an International Application was filed on as designating the United States

AND WHEREAS

Schering AG Mullerstraße 178 D-13353 Berlin GERMANY

heremafter referred to as the ASSIGNEE, is desirous of acquiring the entire right, nile, and interest in and to said invention and application(s), including any and all earlier priority rights (US and foreign), divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, recommissions 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 communious thereof, and any and all Letters Patent which may be granted therefor, including any and all tenewals, reissues, retrainmations 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 assuming of patent, in the United States and/or any countries foreign thereto concerning said invention. SAID ASSIGNER, its assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all entired 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 entired priority rights (U.S. and foreign), divisions and continuations thereof, and any and all teriers patent which may be granted therefor, including any and all renewals, reissues, recaminations and extensions thereof, 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, retraintations 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 intensions and exploses as the ASSIGNOR jought or could have held and enjoyed the same, if the assignment had not been made

AND ASSIGNOR hereby agrees to exocute 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 socuring 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, is 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 any further identification which may be necessary or desurable in order to comply with the rules of the United States Patent and Trademark Office for recordanon of this document.

IN TESTIMONY WHEREOF This assignment is carculated by ASSIGNOR

|  | INVENTOR-SIGNATURE      | LATE     |
|--|-------------------------|----------|
| 201 FULL NAME OF SULLE OR FIRST NAMED INVENTOR | hag have have have have | 2216 163 |
| Johannes PLATZEK                               | Men Mertin              | 61/9/02  |
| 202 FULL NAME OF SECOND JOINT INVENTIOR        | INVENIOR SEGNATURE      | DATE     |
| Henbert SCHMITT-WILLICH                        | I SKR - G.              | 26/9/02  |
| 201 FULL NAME OF THIRD JOINT INVENTOR          | INVENTORS SICHATURE     | PATE     |
| Günther MICHL                                  | for the third           | X110102  |
| 104 FULL NAME OF FOURTH JOINT INVENTOR         | INVENTUKS SICNATURK     | uate     |
| Thomas FRENZEL                                 | Thomas menuel           | 2.10.02  |
| 205 FULL NAME OF FIFTE JUNT DIVENTOR           | INVENTORS SKINATURE     | DATE     |
| Detlev SÜL2LE                                  | John hills              | their    |
| 300 FULL NAME OF SIXTELIOINT INVENTOR          | INVENTUR'S SICSIATURE   | INTE     |
| Hans BAUER                                     | Hem Barr                | 2.10.0Z  |
| 207 FULL NAME OF SEVENTH JOINT INVENTOR        | INVENIORS SIGNALUKE     | Date     |
| Bernd RADÜCHEL                                 |                         |          |
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| Hanns-Joachum WEINMANN                         | 1 Jours                 | R.10.02  |
| 200 FULL NAME OF NONTH JUINT UNVENTUE          | INVENIORS SIGNATULE     | DATE     |
| Heiko SCHIRMER                                 | H. She                  | 1510.02  |
| 210 FULL NAME OF LENTH JOINT INVENTOR          | INVENTUR'S SIGNATURE    | DATE     |
|  |                         |          |

# ASSIGNMENT

ATTY DOCKET NO LEDER-D

51734 A

WHEREAS the below maned inventor (if only one inventor is named below) or inventors (if plural inventors are named below) hereinalter referred to as the ASSIGNUR invented a certain improvement(3) relating to

### MACROCYCLIC METAL COMPLEXES AND THEIR USE FOR THE PRODUCTION OF CONJUGATES WITH BIOMOLECULES

6 for which an application for Letters Patent to be filed in the United States Patent and Trademark Office was executed on even date

for which U.S. Application Serial No. 10/198,046 for Letters Patent was filed in the U.S. Patent and Trademark Office on July 19, 2002

23

for which an International Application was filed on

, designating the United States

AND WHEREAS

Schering AG Mullerstraße 178 D-13353 Berlin GERMANY

heremafter referred to as the ASSIGNEE, is desirous of acquiring the calare tight, title, and interest in and to said invention and application(a), 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, reasons, reasons, reasons, and extensions thereof.

NOW, WITNESSETH that for good and valuable consideration, the incerpt whereof is hereby acknowledged, ASSIGNOR hereby assigns, sells, and transfers to ASSIGNEE, its assigns and legal representatives, the entre and carlosive right, title and interest in and to suid invention and application(s), including any and all divisions and commutions thereof, and any and all Letters Patent which may be granted therefor, including any and all tenewals, reissues, retrammations and extensions thereof, and in and to any and all U.S. (including provisional) or foreign priority and/or convention tights or benefits uccruing of to accrue with respect to the filling or sessing of patents in the United States and/or any countries foreign priority and/or convention tights or benefits assigns and legal representatives to have, hold, exercise, and enjoy said invention and application, including any and all tenewals, reckaminations and legal continuations thereof, and 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 error priority rights reckaminations and extensions thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertationg 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 outersions 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 junght or could have held and enjoyed the same, if the assignment had not been made

AND ASSIGNOR hereby agrees to exocute 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 understyned hereby grant(s) the law firm of Millen. White, Zelano & Branigan, P C. the power to insert on this assignment any further identification which may be necessary or desurable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

#### IN TESTIMONY WHEREOF this assignment is carcuted by ASSIGNUR

| 201 FULL NAME OF SULE OR FIRST NAMED INVENTOR | LIVENTOR'S SIGNATURE | PATE           |
|---|----------------------|----------------|
| Johannes PLATZEK                              |                      |                |
| 202 FULL NAME OF SECOND JODAT INVENTOR        | INVENIORS SIGNATURE  | DATE           |
| Henbert SCHMITT-WILLICH                       |                      |                |
| 203 FULL NAME OF THIRD JORNT INVENTOR         | INVENTOR'S SIGNATURE | DATE           |
| Günther MICHL                                 |                      |                |
| 204 FULL NAME OF FOURTH JOINT INVENTOR        | INVENTUKS SICNATURE  | DATE           |
| Thomas FRENZEL                                |                      |                |
| 205 FULL NAME OF FIFTH XINT DAVENTUR          | inventors signature  | DATE           |
| Detlev SÜLZLE                                 |                      |                |
| 200 FULL NAME OF SIXTH JOINT INVENTOR         | LIVENTUR'S SICINTURE | ETAL           |
| Hans BAUER                                    | <b>—</b>             |                |
| 207 HILL NAME OF SEVENTH JOBNT INVENTION      | ENVENIORS SIGNALUKE  | DATE           |
| Bernd RADÜCHEL                                | fadulul              | Sept. 25, 2002 |
| 208 FULL NAME OF EICITH JUINT INVENTOR        | INVENTORS SIGNATURE  | DAIE           |
| Hanns-Joachum WEINMANN                        |                      |                |
| 209 FULL NAME OF NONTH JOINT INVENTOR         | INVENIORS SIGNATURE  | DATE           |
| Heiko SCHIRMER                                |                      |                |
| 210 FULL NAME OF IENTH JOUNI INVENTOR         | INVENTUR'S SIGNATURE | 27AU           |
|   |                      |                |

## PATENT REEL: 013519 FRAME: 0471

**RECORDED: 11/22/2002**