04-26-2000

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| To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. | | |
| 1. Name of conveying party(ies): Peter Anthony KNIGHT | Name and address of receiving party(ies): Name: MEDEVA PHARMA LIMITED | |
| Peter Anthony KNICHI | Internal Address: | |
| / HILL . | Street Address: Medeva House, Regent Park, Kingston | |
| \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | Road, Leatherhead | |
| TRANEMIN TRANSMIN | | |
| Additional name/s of conveying party/ies attached? | | |
| 3. Nature of conveyance: | City: Surrey | |
| ☐ Assignment ☐ Merger | State/Country: United Kingdom | |
| Security Assignment | Zip: KT22 7PQ | |
| Other | | |
| Execution Date: March 13, 2000 | 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(s). | B. Patent No(s). | |
| (1) 08/374,649 | (1) | |
| (2) | (2) | |
| (3) | (3) | |
| Additional numbers attached Yes No | | |
| 5. Name and address of party to whom correspondence | 6. Total number of applications & patents involvedl | |
| concerning document should be mailed: | 7 7 1 6 (27 (122 2 41)) | |
| | 7. Total fee (37 CFR 3.41) \$ 40.00 | |
| Name: B.J. Sadoff | ⊠ Enclosed | |
| | Authorized to be charged to deposit account #14-1140 | |
| Internal Address: | O. The Commissioner is hereby outhorized to charge any | |
| Control Mining & Vandantin D.C. | 8. The Commissioner is hereby authorized to charge any deficiency in the fee(s) filed, or asserted to be filed, or which | |
| Street Address: Nixon & Vanderhye P.C. | should have been filed herewith (or with any paper thereafter | |
| 1100 North Glebe Road 8 th Floor | filed in this application by this firm) to our Account No. | |
| | 14-1140. | |
| City: Arlington State: VA Zip: 22201 | 14-1140. | |
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| 9. Statements 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. | | |
| ドメルシー | | |
| B.J. Sadoff | April 4, 2000 | |
| Name of Person Signing Sig | nature Date | |
| Reg. No. 36.663 Total number of pages including original cover sheet, attachments, and document: [5] | | |
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PATENT REEL: 010718 FRAME: 0710

ASSIGNMENT OF PATENT APPLICATION

(Inventors) Anthony James Sheppard and Peter Anthony Knight

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to

(Assignee)

Medeva Pharma Limited

(Address)

of Medeva House, Regent Park, Kingston Road, Leatherhead, Surrey KT22 7PQ, UK (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions, and for foreign counterparts of the same, of and in the invention, and all applications for patent and any Letters Patents, or equivalent, which may be granted or issued therefore, known as

(Title)

TETANUS VACCINE PRODUCTION

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed

(on or has already filed in

(U.S. Application Serial No. 08/374,649, filed on 1 March 1995 (The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he was (they have) not executed and will not execute, any agreement in conflict herewith.

PATENT REEL: 010718 FRAME: 0711

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s). Date _____ Signature of Inventor Anthony James Sheppard ____ Date _____ Witnessed by:

Date 1 de Man Signature of Peter Anthony Knight

Witnessed by: A.C. toward Date 15th Reach Decor

RECORDED: 04/04/2000

PATENT REEL: 010718 FRAME: 0712