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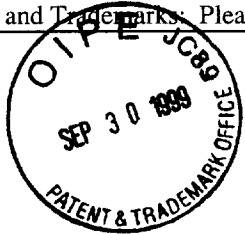
Our Ref.: 117-197

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

<p>1. Name of conveying party(ies):  Richard A. ROMANOS</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment                      <input type="checkbox"/> Merger  <input type="checkbox"/> Security Assignment              <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other</p> <p>Execution Date:                      July 8, 1999</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>MEDEVA PHARMA LIMITED</u>  Internal Address: _____  Street Address: <u>Medeva House, Regent Park, Kingston</u>  <u>Road</u>  _____  _____  City: <u>Leatherhead, Surrey</u>  State/Country: <u>United Kingdom</u>  Zip: <u>KT22 7PQ</u></p> <p>Additional name/s &amp; address/es attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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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: \_\_\_\_\_

<p>A Patent Application No(s).  (1) 08/474, 386  (2)</p>	<p>B.  (1)  (2)</p>
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Additional numbers attached  Yes  No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>B.J. Sadoff</u>  Internal Address: _____  Street Address: <u>Nixon &amp; Vanderhye P.C.</u>  <u>1100 North Glebe Road</u>  <u>8<sup>th</sup> Floor</u>  City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications &amp; patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u>  <input checked="" type="checkbox"/> Enclosed  <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any <u>deficiency</u> in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our <b>Account No. 14-1140.</b></p>
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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.

<p><u>B.J. Sadoff</u>  Name of Person Signing  Reg. No. 36,663</p>	<p><i>Handwritten Signature</i>  Signature</p>	<p><u>September 30, 1999</u>  Date</p>
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Total number of pages including **original** cover sheet, attachments, and document: [2]

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01 FC:581 40.00 OP

# ASSIGNMENT OF PATENT APPLICATION

(Inventors) (Michael A. <sup>o</sup>Rizmanos  
*MAR*)

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 Patent, or equivalent, which may be granted or issued therefore, known as,

(Title) POLYPEPTIDES AND VACCINES FOR BORDETELLA PERTUSSIS AND METHODS OF USE

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. appln. Serial No. **08/474,386**, filed on **June 7, 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 has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHUYE 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 8/7/99 Signature of inventor ( *MAR*

Witnessed by: *MK Forbes* Date 8/7/99

*M. K. FORBES*  
*93 APSLEY END ROAD*  
*SHILLINGTON*  
*HITCHIN*  
*HERTS*  
*SG5 3LX*

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