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FORM PTO-1595 U.S.  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)



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DEPARTMENT OF COMMERCE  
Patent and Trademark Office

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

<p>1. Name of conveying party(ies): Arthur M. Krieg Joachim Schorr Heather L. Davis</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____</p> <p>Execution Date: August 6, 1999</p>	<p>2. Name and address of receiving party(ies)</p> <p>Name: University of Iowa Research Foundation</p> <p>Internal Address: 214 Technology Innovation Center</p> <p>Street Address: Oakdale Research Campus 22 Iowa City, Iowa 52242</p> <p>CpG ImmunoPharmaceuticals GmbH Max-Volmer-Strasse 4, D-40724 Hilden, Germany</p> <p>Loeb Health Research Institute at the Ottawa Hospital 725 Parkdale Avenue, Ottawa, Ontario, Canada K1Y 4E9</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

A. Patent Application No.(s) 09/325,193	B. Patent No.(s)
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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: Helen C. Lockhart Address: WOLF, GREENFIELD &amp; SACKS, P.C. Federal Reserve Plaza 600 Atlantic Avenue Boston, MA 02210</p>	<p>6. Total number of applications and patents involved: <b>1</b></p> <p>7. Total fee (37 CFR 3.41) \$ 40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p> <p>The Commissioner is authorized to charge:</p> <p>8. Deposit Account No: 23/2825</p>
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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.*

Helen C. Lockhart		October 19 1999
Name of Person Signing	Signature	Date

Total number of pages including cover sheet, attachments, and document: **7**

Mail documents to be recorded with required cover sheet information to:  
Box Assignment, Commissioner of Patents and Trademarks, Washington, D.C. 20231

10/25/1999 MTHAI1 00000109 09325193

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**PATENT**  
**REEL: 010322 FRAME: 0157**

**ASSIGNMENT**

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, Arthur M. Krieg, hereby

Sell, assign and transfer to the University of Iowa Research Foundation, a corporation of Iowa having a place of business at 214 Technology Innovation Center, Oakdale Research Campus, Iowa City, Iowa, 52242, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed on June 3, 1999, assigned serial no. 09/325,193 and entitled **USE OF NUCLEIC ACIDS CONTAINING UNMETHYLATED CPG DINUCLEOTIDE AS AN ADJUVANT**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

8/6/99  
Date

Att M/K  
Arthur M. Krieg

STATE OF Massachusetts :

COUNTY OF Suffolk :

Subscribed and sworn to before me this 6<sup>th</sup> day of August 1999.

SEAL

Marianne Flynn  
Notary Public

My Commission Expires \_\_\_\_\_

MARIANNE FLYNN  
NOTARY PUBLIC  
My Commission Expires April 16, 2004

**ASSIGNMENT**

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, Joachim Schorr, hereby

Sell, assign and transfer to the CpG ImmunoPharmaceuticals GmbH, a German corporation having a place of business at Max-Volmer-Strasse 4, D-40724 Hilden, Germany, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed on June 3, 1999, assigned serial no. 09/325,193 and entitled **USE OF NUCLEIC ACIDS CONTAINING UNMETHYLATED CPG DINUCLEOTIDE AS AN ADJUVANT**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

6/2/99  
Date

J.S.  
Joachim Scherr

<p><u>August 6, 1999</u> Date</p>	<p><u>[Signature]</u> Witness</p>
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**ASSIGNMENT**

In consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned, Heather L. Davis, hereby

Sell, assign and transfer to the Loeb Health Research Institute at the Ottawa Hospital, a corporation of Canada having a place of business at 725 Parkdale Avenue, Ottawa, Ontario, Canada K1Y 4E9, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, the entire right, title and interest for the United States and all foreign countries, in and to any and all inventions which are disclosed in the application for United States Letters Patent filed on June 3, 1999, assigned serial no. 09/325,193 and entitled **USE OF NUCLEIC ACIDS CONTAINING UNMETHYLATED CPG DINUCLEOTIDE AS AN ADJUVANT**, and in and to said application and all divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent which have been or shall be filed in the United States and all foreign countries on any of said inventions; and in and to all original and reissued patents which have been or shall be issued in the United States and all foreign countries on said inventions including the right to apply for patent rights in each foreign country and all rights to priority.

Agree that said Assignee may apply for and receive Letters Patent for said inventions in its own name; and when requested, without charge to but at the expense of said Assignee, agree to carry out in good faith the intent and purpose of this assignment by executing all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all said inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to said Assignee all facts known to me relating to said inventions and the history thereof, and generally by doing everything possible which said Assignee shall consider desirable for aiding in securing and maintaining proper patent protection for said inventions and for vesting title to said inventions and all applications for patents and all patents on said inventions, in said Assignee.

Hereby request the Honorable Commissioner of Patents and Trademarks to issue said Letters Patent to said Assignee.

Covenant with said Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me, and that full right to convey the same as herein expressed is possessed by me.

8/6/99  
Date

Heather L. Davis  
Heather L. Davis

STATE OF Massachusetts :  
 COUNTY OF Suffolk :  
 Subscribed and sworn to before me this 6<sup>th</sup> day of August 1999.

SEAL

Marianne Flynn  
Notary Public

My Commission Expires \_\_\_\_\_

MARIANNE FLYNN  
NOTARY PUBLIC  
My Commission Expires April 16, 2004