


Client Code: NIH323.001VPC

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To the Director, U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): (List using letters or numbers for multiple parties)</p> <p>1) John T. Schiller 2) Diana V. Pastrana 3) Douglas R. Lowy</p> <p>Additional name(s) of conveying party(ies) attached? ( ) Yes (X) No</p>	<p>2. Name and address of receiving party(ies):</p> <p><b>Name:</b> the Government of the United States of America, as represented by the Secretary, Department of Health and Human Services</p> <p><b>Internal Address:</b> Suite 325 <b>Street Address:</b> 6011 Executive Blvd. <b>City:</b> Rockville <b>State:</b> MD <b>ZIP:</b> 20852-3804</p> <p>Additional name(s) of receiving party(ies) attached? ( ) Yes (X) No</p>
<p>3. Nature of conveyance:</p> <p>(X) Assignment ( ) Security Agreement ( ) Merger ( ) Change of Name</p> <p>( ) Other:</p> <p>Execution Date: (List as in section 1 if multiple signatures)</p> <p>1) July 12, 2007 2) July 12, 2007 3) July 12, 2007</p>	<p>4. US or PCT Application number(s) or US Patent number(s):</p> <p>(X) Patent Application No.: PCT/US2006/003601 Filing Date: February 1, 2006</p> <p>Additional numbers attached? ( ) Yes (X) No</p>
<p>5. Party to whom correspondence concerning document should be mailed:</p> <p><b>Customer No.</b> 45,311</p> <p><b>Address:</b> Knobbe, Martens, Olson &amp; Bear, LLP 2040 Main Street, 14<sup>th</sup> Floor Irvine, CA 92614</p> <p><b>Return Fax:</b> (949) 760-9502</p> <p><b>Attorney's Docket No.:</b> NIH323.001VPC</p>	<p>6. Total number of applications and patents involved: 1</p>
<p>7. Total fee (37 CFR 1.21(h)): \$40</p> <p>(X) Authorized to be charged to deposit account</p>	<p>8. Deposit account number: 11-1410</p> <p>Please charge this account for any additional fees which may be required, or credit any overpayment to this account.</p>
<p>9. Statement and signature.</p> <p>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> <p><u>Nancy W. Vensko</u> Name of Person Signing</p> <p> Signature</p> <p><u>7/12/07</u> Date</p> <p>36,298 Registration No.</p> <p>Total number of pages including cover sheet, attachments and document: 5</p>	

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**PATENT**  
**REEL: 019555 FRAME: 0140**

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NIH323.001VPC

PATENT

ASSIGNMENT

WHEREAS, we, John T. Schiller, a United States citizen, residing at 9630 Dewmar Lane, Kensington, MD 20895; Diana V. Pastrana, a United States citizen, residing at 1625 International Drive, #316, McClean, VA 22102; and Douglas R. Lowy, a United States citizen, residing at 8519 Rosewood Drive, Bethesda, MD 20814, employees of the Department of Health and Human Services, have invented PAPILOMAVIRUS L2 N-TERMINAL PEPTIDES FOR THE INDUCTION OF BROADLY CROSS-NEUTRALIZING ANTIBODIES, for which we have made application for Letters Patent of the United States Serial No. PCT/US2006/003601, filed February 1, 2006 which claims the benefit of U.S. Provisional Application No. 60/649,249 filed February 1, 2005, U.S. Provisional Application No. 60/697,655 filed July 7, 2005 and U.S. Provisional Application No. 60/752,268 filed December 21, 2005;

WHEREAS, we are the applicants named in the above-identified application for Letters Patent;

WHEREAS, the conditions under which said invention was made are such as to entitle the Government under Paragraph 1(a) of Executive Order 10096 to an entire right, title, and interest herein, both domestic and foreign; and

WHEREAS, the Government of the United States is desirous of acquiring all domestic and foreign right, title and interest in the above-mentioned invention described in the application for Letters Patent; and

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, we hereby assign and transfer to the United States of America, as represented by the Secretary, Department of Health and Human Services, the full and exclusive rights in and to said invention in the U.S. and within each and every foreign country in which the Government elects to file and the entire right, title and interest in and to such applications, and any continuations, continuations-in-part, divisions, reissues or extensions thereof, and including priority rights as may be filed in the U.S. and foreign countries, and such Letters Patent as may be granted to be held by the Government to the end of the term for which the same would have been held by the inventors had this assignment not been made.

We further agree to make, execute and deliver to the Secretary, Department of Health and Human Services, upon request, any and all papers, documents, affidavits or other instruments that may be necessary in the prosecution of any application or applications for improvements or reissues of Letters Patent, and to assist the Government in every way as may be requested in protecting said invention, provided that any expense of extending such assistance shall be paid by the Government.

PATENT

REEL: 019555 FRAME: 0141

Client Code : NIH323.001VPC  
Serial No. : PCT/US2006/003601  
Filing Date : February 1, 2006

IN WITNESS WHEREOF, I hereunto set my hand and seal this 12 day of  
July, 2007.

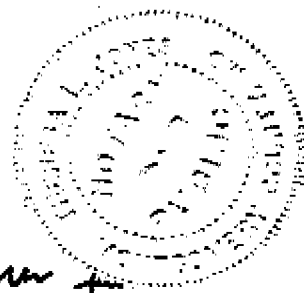
  
John T. Schiller

STATE OF MD ss.  
COUNTY OF Montgomery

On this 12 day of July, 2007 before me, a Notary Public in and for the  
State and County aforesaid, personally appeared John T. Schiller, personally known to me or  
proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed  
the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Theresa Jones, Montgomery County Maryland  
Notary Public in and for the aforesaid County and State

My Commission Expires: 6/14/09



Theresa Jones  
ETP 6/14/09

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IN WITNESS WHEREOF, I hereunto set my hand and seal this 12 day of  
July, 2007.

  
\_\_\_\_\_

Diana V. Pastrana

STATE OF

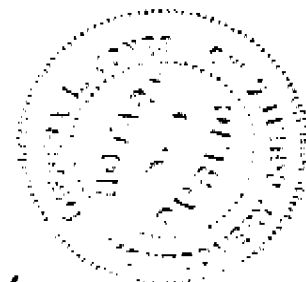
COUNTY OF

1  
1 ss.

On this 12 day of July, 2007 before me, a Notary Public in and for the  
State and County aforesaid, personally appeared Diana V. Pastrana, personally known to me or  
proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed  
the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Therese Jones, Notary Public, Maryland  
Notary Public in and for the aforesaid County and State

My Commission Expires: 6/12/09



Therese Jones  
Exp 6/12/09

Client Code : NH323.001 VPC  
Serial No. : PCT/US2006/003601  
Filing Date : February 1, 2006

IN WITNESS WHEREOF, I hereunto set my hand and seal this 12 day of

July, 2007

Douglas R. Lowy  
Douglas R. Lowy

STATE OF



ss.

COUNTY OF

On this 12 day of July, 2007, before me, a Notary Public in and for the State and County aforesaid, personally appeared Douglas R. Lowy, personally known to me or proven on the basis of satisfactory evidence to be the person of that name, who signed and sealed the foregoing instrument, and acknowledged the same to be his/her free act and deed.

Theresa J. Montgomery  
Notary Public in and for the aforesaid County and State

My Commission Expires: 6/19/09

NHASS

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Theresa J. Montgomery  
6/19/09