

PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Robert F. Bonner</td><td>11/17/2005</td></tr><tr><td>Michael R. Emmert-Buck</td><td>12/02/2005</td></tr><tr><td>Michael Anthony Tangrea</td><td>12/05/2005</td></tr><tr><td>Rodrigo F. Chuaqui</td><td>12/05/2005</td></tr><tr><td>Thomas J. Pohida</td><td>07/31/2008</td></tr></tbody></table>		Name	Execution Date	Robert F. Bonner	11/17/2005	Michael R. Emmert-Buck	12/02/2005	Michael Anthony Tangrea	12/05/2005	Rodrigo F. Chuaqui	12/05/2005	Thomas J. Pohida	07/31/2008
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Michael Anthony Tangrea	12/05/2005												
Rodrigo F. Chuaqui	12/05/2005												
Thomas J. Pohida	07/31/2008												
RECEIVING PARTY DATA													
Name:	The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services												
Street Address:	Office of Technology Transfer, National Institutes of Health												
Internal Address:	6011 Executive Blvd., Suite #325												
City:	Rockville												
State/Country:	MARYLAND												
Postal Code:	20852-3804												
PROPERTY NUMBERS Total: 1													
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12753566</td></tr></tbody></table>		Property Type	Number	Application Number:	12753566								
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Application Number:	12753566												
CORRESPONDENCE DATA													
Fax Number:	(503)595-5301												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	5035955300												
Email:	molly.boyd@klarquist.com												
Correspondent Name:	Wayne Rupert												
Address Line 1:	121 SW Salmon St.												
Address Line 2:	Suite 1600												
Address Line 4:	Portland, OREGON 97204												
ATTORNEY DOCKET NUMBER:	4239-66334-08												

CH \$40.00 12753566

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PATENT  
REEL: 024333 FRAME: 0239

NAME OF SUBMITTER:

Wayne Rupert

**Total Attachments: 5**

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## ASSIGNMENT

We, Robert F. Bommer, of Washington, D.C., a citizen of the United States of America, Michael R. Emmert-Buck, of Easton, Maryland, a citizen of United States of America, Michael Anthony Tangrea, of Odenton, Maryland, a citizen of United States of America, and Rodrigo F. Chuaqui, of North Potomac, Maryland, a citizen of Chile, have invented a certain invention entitled TARGET ACTIVATED MICROTRANSFER for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/442,399, filed on January 24, 2003;  
PCT Application No. PCT/US2003/023317 filed on July 23, 2003; and  
U.S. Application No. 10/543,218 filed on July 22, 2005;

all of which applications are collectively referred to herein as "the patent applications."

We were employed by the Department of Health and Human Services at the time the invention was made. The conditions under which said invention was made are such as to entitle the Government of the United States of America under Paragraph 1(a) of Executive Order 10096, to the entire right, title, and interest in the invention, in the United States and all other countries throughout the world.

In consideration of our obligations under Executive Order 10096, and other valuable consideration, we the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to The Government of the United States of America as represented by the Secretary of the Department of Health and Human Services (hereinafter THE GOVERNMENT), and successors and assigns, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

We authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by us had this assignment not been made.

We warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

We also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to us respecting the invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, provide all requested documents, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

We have authorized THE GOVERNMENT to file and prosecute the patent applications, as well as any corresponding international or national applications that claim priority from them. THE GOVERNMENT has

the right to select attorneys or agents of its choice to prosecute at its discretion the patent applications on its behalf.

We grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

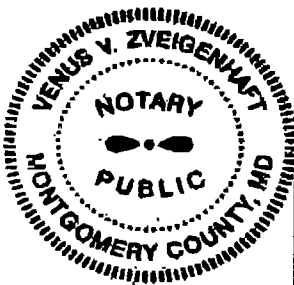
Dated: November 17, 2005

Robert F. Bonner  
Robert F. Bonner

STATE OF Maryland )  
COUNTY OF Montgomery ) ss.

This 17th day of Nov., 2005, before me personally came the above-named Robert F. Bonner, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

[SEAL]



V. Zveighaupt  
Notary Public for Robert F. Bonner  
My commission expires: 8/8/09

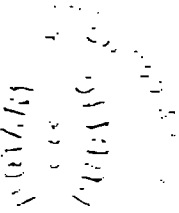
Dated: December 2, 2005

Michael R. Emmert-Buck  
Michael R. Emmert-Buck

STATE OF Maryland )  
COUNTY OF Montgomery ) ss.

This 2nd day of Dec, 2005, before me personally came the above-named Michael R. Emmert-Buck, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

[SEAL]



Julia Guzman  
Notary Public for Montgomery County  
My commission expires:

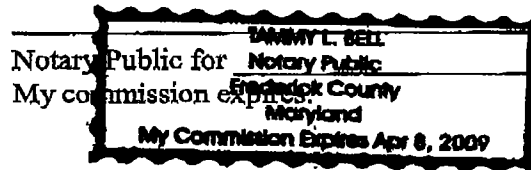
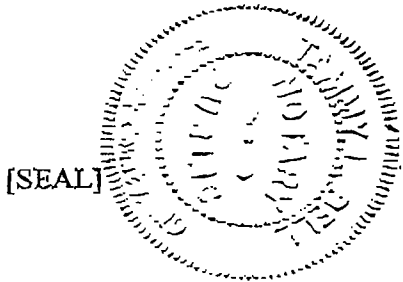
Julia Guzman  
NOTARY PUBLIC  
Montgomery County, Maryland  
My Commission Expires 11/01/07

Dated: December 5,

Michael Anthony Tangrea  
Michael Anthony Tangrea

STATE OF Maryland )  
COUNTY OF Anne Arundel ) ss.

This 5<sup>th</sup> day of December, 2005, before me personally came the above-named Michael Anthony Tangrea, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.

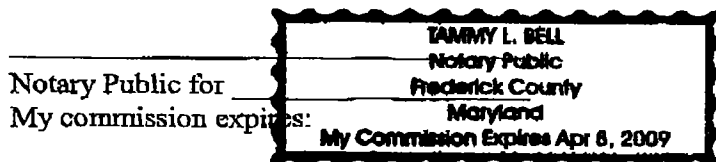
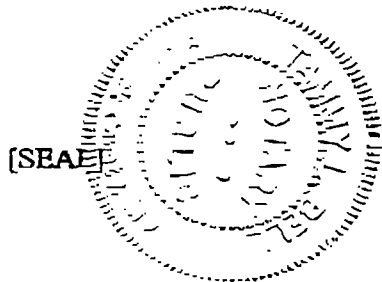


Dated: 12-5-05

Rodrigo F. Chuaqui  
Rodrigo F. Chuaqui

STATE OF Maryland )  
COUNTY OF Montgomery ) ss.

This 5<sup>th</sup> day of December, 2005, before me personally came the above-named Rodrigo F. Chuaqui, who executed the foregoing Assignment in my presence, and who acknowledged to me that it was executed under that person's own free will for the purposes set forth therein.



### ASSIGNMENT

I, Thomas J. Pohida, of Monrovia, Maryland, a citizen of the United States of America, have invented a certain invention entitled TARGET ACTIVATED MICROTRANSFER for which the following patent applications have been filed:

PCT Application No. PCT/US2003/023317 filed on July 23, 2003;  
U.S. Application No. 10/543,218 filed on July 22, 2005; and  
U.S. Provisional Application No. 60/442,399 filed on January 24, 2003

all of which applications are collectively referred to herein as "the patent applications."

At the time the invention was made, I was employed by the Center for Information Technology at the National Institutes of Health, a component of the Department of Health and Human Services. The conditions under which said invention was made entitle THE UNITED STATES OF AMERICA, as represented by the Secretary, Department of Health and Human Services (hereinafter "THE GOVERNMENT") to the entire right, title, and interest in the invention under Paragraph 1(a) of Executive Order 10096 and its amendments, 35 USC Chapter 18, and 37 CFR Parts 401 and 501.

In consideration of my legal obligations to assign my right, title and interest in the invention as well as other valuable consideration, I the undersigned, have sold, assigned, and transferred and do sell, assign, and transfer to THE GOVERNMENT, having a place of business at the Office of Technology Transfer, National Institutes of Health, 6011 Executive Boulevard, Suite 325, MSC 7660, Bethesda, Maryland 20892-7660, the full and exclusive right, title, and interest in the patent applications and invention throughout the United States of America, its territories and dependencies, and all other countries. This includes an assignment of all Letters Patent that may be granted on the invention in the United States of America and all countries throughout the world, and any divisional, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof; and the right to claim priority from the patent applications as provided for by United States law, the Patent Cooperation Treaty, the European Patent Convention, the Paris Convention, or other applicable law.

I authorize and request the issuance of said Letters Patent to THE GOVERNMENT as assignee of the entire right, title, and interest to be held as fully and entirely as the same would have been held by me had this assignment not been made.

I warrant that there are no outstanding assignments, grants, liens, encumbrances, or agreements either written, oral, or implied that will impair, diminish, limit, or abridge the interest herein conveyed at the time of the execution of the present assignment.

I also agree upon reasonable request to communicate to THE GOVERNMENT, its representatives, assigns or agents, any facts known to me respecting the invention, and testify in any legal proceedings, make, execute and/or deliver to THE GOVERNMENT all papers, documents, affidavits or other instruments that may be necessary in the prosecution of any patent application, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths, and do everything reasonably possible to aid THE GOVERNMENT and its assigns to obtain and enforce proper patent protection for the invention in the United States or any foreign country. These provisions are binding upon my heirs, legal representatives, administrators and assigns.

I grant the law firm of Klarquist Sparkman, LLP, the power to insert on this Assignment any further information that may be necessary or desirable in order to comply with all applicable legal requirements, including the rules of the United States Patent and Trademark Office, for submitting and recording this document.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 7/31/08

Thomas J. Pohida  
Thomas J. Pohida

STATE OF Maryland )  
COUNTY OF Prince Georges ) ss.

This 31<sup>st</sup> day of July, 2008, before me personally came the above-named Thomas J. Pohida, who executed the foregoing Assignment in my presence, and who acknowledged to me that this instrument was executed by Thomas J. Pohida's own free will for the purpose set forth therein.

Ingrid G. Harris  
Notary Public for State of Maryland  
My commission expires:

INGRID G. HARRIS  
NOTARY PUBLIC STATE OF MARYLAND  
My Commission Expires August 21, 2007 2011

[SEAL]