

# PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT												
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT												
<b>CONVEYING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Tarmo Roosild</td> <td>05/22/2006</td> </tr> <tr> <td>Jason Greenwald</td> <td>03/20/2006</td> </tr> <tr> <td>Senyon Choe</td> <td>04/18/2006</td> </tr> <tr> <td>Roland Riek</td> <td>04/20/2006</td> </tr> <tr> <td>Mark Vega</td> <td>04/19/2006</td> </tr> </tbody> </table>		Name	Execution Date	Tarmo Roosild	05/22/2006	Jason Greenwald	03/20/2006	Senyon Choe	04/18/2006	Roland Riek	04/20/2006	Mark Vega	04/19/2006
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<b>RECEIVING PARTY DATA</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;"><b>Name:</b></td> <td>The Salk Institute for Biological Studies</td> </tr> <tr> <td><b>Street Address:</b></td> <td>10010 N. Torrey Pines Road</td> </tr> <tr> <td><b>City:</b></td> <td>La Jolla</td> </tr> <tr> <td><b>State/Country:</b></td> <td>CALIFORNIA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>92037-1099</td> </tr> </table>		<b>Name:</b>	The Salk Institute for Biological Studies	<b>Street Address:</b>	10010 N. Torrey Pines Road	<b>City:</b>	La Jolla	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	92037-1099		
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<b>PROPERTY NUMBERS Total: 1</b>													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12540852</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12540852								
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<b>CORRESPONDENCE DATA</b>													
<p>Fax Number: (503)595-5301</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 5035955300</p> <p>Email: molly.boyd@klarquist.com</p> <p>Correspondent Name: Jodi L. Connolly, Ph.D.</p> <p>Address Line 1: 121 SW Salmon St.</p> <p>Address Line 2: Suite 1600</p> <p>Address Line 4: Portland, OREGON 97204</p>													
<b>ATTORNEY DOCKET NUMBER:</b>	7158-69602-06												
<b>NAME OF SUBMITTER:</b>	Jodi L. Connolly												

CH \$40.00 12540852

**501026376**

**PATENT**  
**REEL: 023575 FRAME: 0517**

**Total Attachments: 23**

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## ASSIGNMENT

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The subject invention(s) was made as a result of our activities at or on behalf of the Salk Institute for Biological Studies or as a result of our utilization of information, facilities or other resources of the Salk Institute for Biological Studies. The conditions under which said invention(s) was made are such as to entitle the Salk Institute for Biological Studies to the entire right, title, and interest in the invention(s) and the patent applications in the United States and its territories and dependencies, and all other countries of the world.

In consideration of our obligations and other valuable consideration, we the undersigned hereby sell, assign, and transfer to the Salk Institute for Biological Studies (hereinafter, "Salk Institute"), its successors and assigns, the full and exclusive right, title, and interest in the invention(s) and the patent applications throughout the United States of America and its territories and dependencies, and all other countries of the world. This includes an assignment of all Letters Patent that may be granted on the invention(s) 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 Salk Institute 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 Salk Institute, its representatives, successors, assigns, or agents, any facts known to us respecting the invention(s), 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 Salk Institute, its representatives, successors, assigns, or agents to obtain and enforce proper patent protection for the invention(s) in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

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

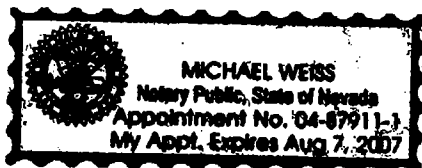
Dated: 5/22/2006

Tarmo Roosild  
Tarmo Roosild

STATE OF Nevada )  
COUNTY OF Clark ) ss.

This 22 day of May, 2006, before me personally came the above-named Tarmo Roosild, 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]



Michael Weiss  
Notary Public for Nevada  
My commission expires: August 7, 2007

Dated: \_\_\_\_\_

\_\_\_\_\_  
Jason Greenwald

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witness for Jason Greenwald

Dated: \_\_\_\_\_

\_\_\_\_\_  
Senyon Choe

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Senyon Choe, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Roland Riek

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Roland Riek, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Mark Vega

STATE OF )  
                  ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Mark Vega, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

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reasonably possible to aid the Salk Institute, its representatives, successors, assigns, or agents to obtain and enforce proper patent protection for the invention(s) in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

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

Dated: \_\_\_\_\_

## Tarmo Roosild

STATE OF )  
COUNTY OF ) ss.

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Tarmo Roosild, 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]

Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: March 20, 2006

Jason Greenwood

Dated: March 20, 2006

Witness for Jason Greenwald



Dated: \_\_\_\_\_

Senyon Choe

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Senyon Choe, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires:

Dated: \_\_\_\_\_

Roland Riek

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Roland Riek, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires:

Dated: \_\_\_\_\_

\_\_\_\_\_  
Mark Vega

STATE OF                    )  
                                  ) ss.  
COUNTY OF                )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Mark Vega, 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]

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Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

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

Dated: \_\_\_\_\_

\_\_\_\_\_  
Tarmo Roosild

STATE OF )  
                  ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Tarmo Roosild, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Jason Greenwald

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witness for Jason Greenwald

Dated: \_\_\_\_\_

S. Choe  
Senyon Choe

STATE OF )  
 ) ss.  
COUNTY OF )

*see attached -*

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Senyon Choe, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Roland Riek

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Roland Riek, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Mark Vega

STATE OF                    )  
                                  ) ss.  
COUNTY OF                )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Mark Vega, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of

San Diego

} ss.

On

April 18, 2006

before me,

Jaclyn J. Lieberman

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

Seryon Choe

Name(s) of Signer(s)

☒ personally known to me

☐ proved to me on the basis of satisfactory evidence

to be the person(s) whose name(s) are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Jaclyn J. Lieberman  
Signature of Notary Public

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

**Description of Attached Document**

Title or Type of Document:

Patent Assignment 504002B

Document Date:

4-18-2006

Number of Pages:

4

Signer(s) Other Than Named Above:

Tarmo Ruosild, Jason Greenwald  
Roland Riek, Mark Vega

Capacity(ies) Claimed by Signer

Signer's Name: \_\_\_\_\_

☐ Individual

☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Partner — ☐ Limited ☐ General

☐ Attorney-in-Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

## **ASSIGNMENT**

We, Tarmo Roosild of San Diego, CA, a citizen of the United States of America, Jason Greenwald of Hangenbieten, France, a citizen of the United States of America, Senyon Choe of Solana Beach, CA, a citizen of South Korea, Roland Riek of La Jolla, CA, a citizen of Switzerland, Mark Vega of Ridgecrest, CA, a citizen of the United States of America have invented **COMPOSITIONS AND METHODS FOR PRODUCING RECOMBINANT PROTEINS** for which the following patent applications have been filed:

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

Dated: \_\_\_\_\_

\_\_\_\_\_  
Tarmo Roosild

STATE OF \_\_\_\_\_ )

) ss.

COUNTY OF \_\_\_\_\_ )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Tarmo Roosild, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Jason Greenwald

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witness for Jason Greenwald

Dated: \_\_\_\_\_

Senyon Choe

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Senyon Choe, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: April 14 2006

*R. Riek*  
Roland Riek

STATE OF )  
 ) ss.  
COUNTY OF )

*(see attached)*

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Roland Riek, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

**Mark Vega**

STATE OF )  
COUNTY OF ) ss.

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Notary Public for \_\_\_\_\_  
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**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

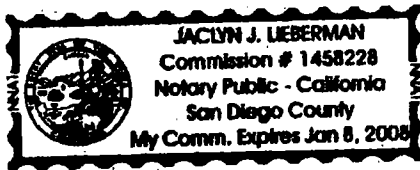
State of California

County of San Diego } ss.

On April 20, 2006 before me, Jaclyn J. Lieberman  
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Roland Rick  
Name(s) of Signer(s)

- ☒ personally known to me  
☐ proved to me on the basis of satisfactory evidence



to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Jaclyn J. Lieberman  
Signature of Notary Public

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Document Date: 4-17-06 Number of Pages: 4

Signer(s) Other Than Named Above: Tarmo Reosild, Jason Greenwood, Senyue Choe + Mark Vega  
Capacity(ies) Claimed by Signer

Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
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## ASSIGNMENT

We, Tarmo Roosild of San Diego, CA, a citizen of the United States of America, Jason Greenwald of Hangenbieten, France, a citizen of the United States of America, Senyon Choe of Solana Beach, CA, a citizen of South Korea, Roland Riek of La Jolla, CA, a citizen of Switzerland, Mark Vega of Ridgecrest, CA, a citizen of the United States of America have invented COMPOSITIONS AND METHODS FOR PRODUCING RECOMBINANT PROTEINS for which the following patent applications have been filed:

U.S. Provisional Patent Application No. 60/639,174, filed on December 22, 2004;  
U.S. Application No. 11/317,847, filed on December 22, 2005; and/or  
PCT Application No. PCT/US2005/046853 filed on December 21, 2005

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

The subject invention(s) was made as a result of our activities at or on behalf of the Salk Institute for Biological Studies or as a result of our utilization of information, facilities or other resources of the Salk Institute for Biological Studies. The conditions under which said invention(s) was made are such as to entitle the Salk Institute for Biological Studies to the entire right, title, and interest in the invention(s) and the patent applications in the United States and its territories and dependencies, and all other countries of the world.

In consideration of our obligations and other valuable consideration, we the undersigned hereby sell, assign, and transfer to the Salk Institute for Biological Studies (hereinafter, "Salk Institute"), its successors and assigns, the full and exclusive right, title, and interest in the invention(s) and the patent applications throughout the United States of America and its territories and dependencies, and all other countries of the world. This includes an assignment of all Letters Patent that may be granted on the invention(s) 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 Salk Institute 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 Salk Institute, its representatives, successors, assigns, or agents, any facts known to us respecting the invention(s), 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 Salk Institute, its representatives, successors, assigns, or agents to obtain and enforce proper patent protection for the invention(s) in the United States or any foreign country. These provisions are binding upon our heirs, legal representatives, administrators and assigns.

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

Dated: \_\_\_\_\_

\_\_\_\_\_  
Tarmo Roosild

STATE OF )  
                  ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Tarmo Roosild, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Jason Greenwald

Dated: \_\_\_\_\_

\_\_\_\_\_  
Witness for Jason Greenwald

Dated: \_\_\_\_\_

\_\_\_\_\_  
Senyon Choe

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Senyon Choe, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
Roland Riek

STATE OF )  
 ) ss.  
COUNTY OF )

This \_\_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Roland Riek, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_

Dated: 4/19/06

Mark Vega  
Mark Vega

STATE OF )  
                  ) ss.  
COUNTY OF )

*see attached*

This \_\_\_ day of \_\_\_\_\_, 2006, before me personally came the above-named Mark Vega, 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]

\_\_\_\_\_  
Notary Public for \_\_\_\_\_  
My commission expires: \_\_\_\_\_



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

State of California

County of

San Diego

} ss.

On

April 19, 2006

before me,

Jaclyn J. Lieberman

Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared

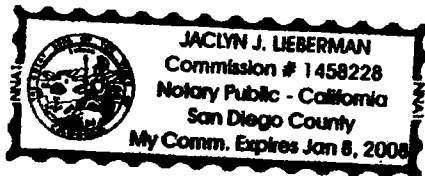
Mark

Vega

Name(s) of Signer(s)

☒ personally known to me

☐ proved to me on the basis of satisfactory evidence



to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Jaclyn J. Lieberman  
Signature of Notary Public

**OPTIONAL**

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

**Description of Attached Document**

Title or Type of Document:

Patent Assignment

Document Date:

4-19-06

Number of Pages:

4

Signer(s) Other Than Named Above:

Tarmo Ruosila, Jason Greenwood, Roland Riek, Bryan Chan

**Capacity(ies) Claimed by Signer**

Signer's Name: \_\_\_\_\_

☐ Individual

☐ Corporate Officer — Title(s): \_\_\_\_\_

☐ Partner — ☐ Limited ☐ General

☐ Attorney-in-Fact

☐ Trustee

☐ Guardian or Conservator

☐ Other: \_\_\_\_\_

Signer is Representing: \_\_\_\_\_

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OF SIGNER**  
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