

PATENT ASSIGNMENT

Electronic Version v1.1

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| James J Collins | 11/30/2007 |
| Ari Friedland | 12/14/2007 |
| Hideki Kobayashi | 12/13/2007 |
| Mads Kaern | 12/13/2007 |
| Michihiro Araki | 12/19/2007 |
| RECEIVING PARTY DATA | |
| Name: | Trustees of Boston University |
| Street Address: | One Sherborn Street |
| City: | Boston |
| State/Country: | MASSACHUSETTS |
| Postal Code: | 02215 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 11662551 |
| CORRESPONDENCE DATA | |
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| Address Line 1: | Nixon Peabody LLP |
| Address Line 2: | 100 Summer Street |
| Address Line 4: | Boston, MASSACHUSETTS 02110 |
| ATTORNEY DOCKET NUMBER: | 70158656582 |
| NAME OF SUBMITTER: | Megan L.Stembridge |

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Total Attachments: 6

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PATENT

REEL: 020282 FRAME: 0360

Atty. Docket No. 701586-056582-US

ASSIGNMENT

WHEREAS, We, James J. Collins, a United States citizen, residing at 118 Glen Avenue, Newton, MA 02459, and Ari Friedland, a United States citizen, residing at 580 Commonwealth Avenue, Apartment 1117, Boston, MA 02215, Hideki Kobayashi, a citizen of Japan, residing at 2-20-90-202, Ookubo, Kounan-Ku, Yokohama 233-0007 Japan, Mads Kaern, a citizen of Denmark, residing at 102 Aylmer Avenue, OTTAWA, ONTARIO, CANADA, and Michihiro Araki, a citizen of Japan, residing at 1-24-11-401 Minami Azabu, Minatoku 106-0047, Japan, and have invented certain new and useful improvements in ENGINEERED ENZYMATICALLY ACTIVE BACTERIOPHAGES AND METHODS OF USES THEREOF, for which we have executed an application for Letters Patent in the United States, filed as U.S. Application Serial Number 11/662,551 filed on March 12, 2007, as a 371 US National Entry of International Application No. PCT/US2005/032365 filed on September 12, 2005, and which claims the benefit under 35 U.S.C. § 119(e) of U.S. Provisional Application Serial No. 60/609,400, filed September 13, 2004, and naming us as inventors;

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AND WHEREAS, the Trustees of Boston University, a Massachusetts corporation, with its principal place of business at One Sherborn Street, Boston, MA 02215, desires to acquire the entire right, title and interest in and to the said improvements and the said Application:

NOW, THEREFORE, for good and valuable consideration, including salary or payment for the making of inventions, or employee benefits, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these present do hereby sell, assign, transfer and set over, unto the said the Trustees of Boston University, its successors, legal representatives and assigns, the entire right, title and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue Patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said the Trustees of Boston University, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said the Trustees of Boston University, its successors, legal representatives and assigns, any facts known to me respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said the Trustees of Boston University, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.


The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110, U.S.A. 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 U.S. Patent and Trademark, Office for recordation of this document.

IN WITNESS WHEREOF, I, James J. Collins, hereunto set my hand and seal this
30 day of Nov, 2007.



James J. Collins

WITNESS:



Signature
JANINE ANDERSON
Printed name

IN WITNESS WHEREOF, I, Ari Friedland, hereunto set my hand and seal this
____ day of _____, 200__.

Ari Friedland

WITNESS:

Signature

Printed name

The undersigned hereby grant(s) the law firm of Nixon Peabody LLP of 100 Summer Street, Boston, Massachusetts 02110, U.S.A. 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 U.S. Patent and Trademark, Office for recordation of this document.

IN WITNESS WHEREOF, I, James J. Collins, hereunto set my hand and seal this
____ day of _____, 200__.


James J. Collins

WITNESS:

Signature

Printed name

IN WITNESS WHEREOF, I, Ari Friedland, hereunto set my hand and seal this
14 day of December, 2007.



Ari Friedland

WITNESS:



Signature

Michael A Kohanski

Printed name

IN WITNESS WHEREOF, I, Hideki Kobayashi, hereunto set my hand and seal this
13th day of December, 2007.

Hideki Kobayashi
Hideki Kobayashi

WITNESS:

Yuichi Nogi
Signature
Yuichi Nogi
Printed name

IN WITNESS WHEREOF, I, Mads Kaern, hereunto set my hand and seal this
____ day of _____, 200____.

Mads Kaern

WITNESS:

Signature

Printed name

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IN WITNESS WHEREOF, I, Hideki Kobayashi, hereunto set my hand and seal this
____ day of _____, 200__.

Hideki Kobayashi

WITNESS:

Signature

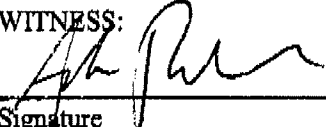
Printed name

IN WITNESS WHEREOF, I, Mads Kaern, hereunto set my hand and seal this
13 day of December, 2007.



Mads Kaern

WITNESS:



Signature

ADAM RUDNER

Printed name

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IN WITNESS WHEREOF, I, Michihiro Araki, hereunto set my hand and seal this
19 day of December, 2007.

Michihiro Araki
Michihiro Araki

WITNESS:

Yuko Kato
Signature

Yuko Kato
Printed name