501874914 04/02/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------|----------------|
| Luc Jaeger | 03/08/2012 |
| Isil Severcan | 03/07/2012 |
| Cody Geary | 03/08/2012 |
| Kirill Afonin | 04/02/2012 |

RECEIVING PARTY DATA

| Name: | The Regents of the University of California | | |
|-----------------|---|--|--|
| Street Address: | 1111 Franklin Street, 12th Floor | | |
| City: | Oakland | | |
| State/Country: | CALIFORNIA | | |
| Postal Code: | 94607 | | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 13378935 |

CORRESPONDENCE DATA

Fax Number: (617)227-4420 Phone: (617) 239-0100

Email: Imarcus@edwardswildman.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: OTT-NIH C/O EDWARDS WILDMAN PALMER LLP

Address Line 1: PO BOX 55874

Address Line 4: BOSTON, MASSACHUSETTS 02205

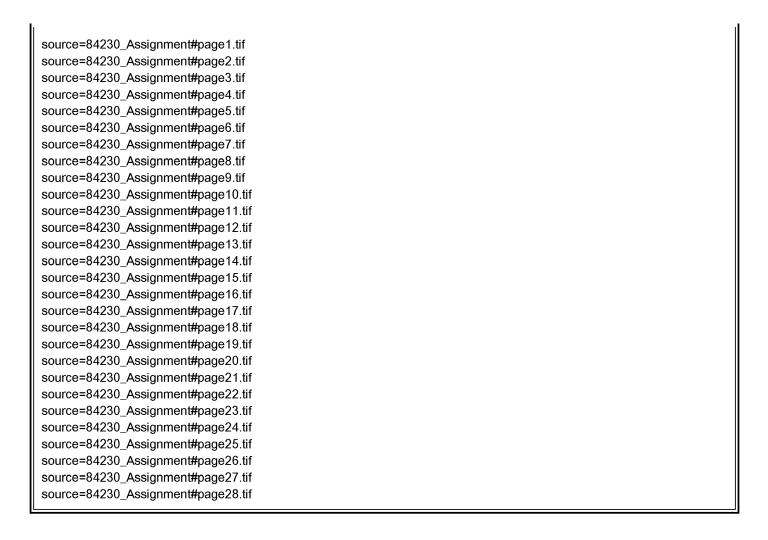
ATTORNEY DOCKET NUMBER: 84230(47992)

NAME OF SUBMITTER: Christine C. O'Day

Total Attachments: 28

PATENT REEL: 027973 FRAME: 0124 CH \$40,00 1337

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PATENT REEL: 027973 FRAME: 0125

| THIS ASSIGNMENT, made this8 day ofMarch,2012_, |
|---|
| by Luc Jaeger; Isil Severcan; Cody Geary; and Kirill Afonin (hereinafter referred to as |
| Assignors), residing at 125 Willow Springs, Apt. 201, Goleta, California 93117, |
| UNITED STATES OF AMERICA; 1365 Van Antwerp Road, Apt. B22, Niskayuna, New |
| York, UNITED STATES OF AMERICA; 2015 Red Rose Way #D, Santa Barbara, |
| California 93109, UNITED STATES OF AMERICA; and 1724 Carriage Way, |
| Frederick, Maryland 21702, UNITED STATES OF AMERICA, respectively; |

WHEREAS, Assignors have invented certain new and useful improvements in RNA NANOPARTICLES AND METHODS OF USE, set forth in an application having United States Serial Number 13/378,935, filed on December 16, 2011, which claims priority to International Patent Application No. PCT/US2010/038818, filed on June 16, 2010, which in turn claims the prior benefit of U.S. Provisional Application No. 61/187,495, filed on June 16, 2009; and

WHEREAS, The Regents of the University of California, having a principal place of business at 1111 Franklin Street, 12th Floor, Oakland, California 94607 (hereinafter referred to as Assignee), is desirous of acquiring the Assignors' entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, their entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, Assignors have good and full right and lawful authority to sell and convey their rights in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

AND Assignors hereby request the Commissioner of Patent and Trademarks to issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the Letters Patent to be issued thereon, for the use and benefit of Assignee, its successors, legal representatives and assigns.

AND Assignors hereby grant the following individuals 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 United States Patent and Trademark Office for recordation of this document:

EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 46037

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| | | Juy |
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| | | Luc Jaeger |
| Date: | 3/08/2012 | |
| United States of A State of County of | merica |)) ss.:) |
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| | | | Isil Severcan | |
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WHEREAS, Assignors have invented certain new and useful improvements in RNA NANOPARTICLES AND METHODS OF USE, set forth in an application having United States Serial Number 13/378,935, filed on December 16, 2011, which claims priority to International Patent Application No. PCT/US2010/038818, filed on June 16, 2010, which in turn claims the prior benefit of U.S. Provisional Application No. 61/187,495, filed on June 16, 2009; and

WHEREAS, The Regents of the University of California, having a principal place of business at 1111 Franklin Street, 12th Floor, Oakland, California 94607 (hereinafter referred to as Assignee), is desirous of acquiring the Assignors' entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefore and thereon.

NOW, THEREFORE, in good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, their entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuations-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention

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AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, Assignors have good and full right and lawful authority to sell and convey their rights in the manner herein set forth.

AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assignors will sign all papers and documents, take all lawful oaths and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns, shall advise: that any proceeding in connection with said inventions, or said Patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable.

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EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 46037

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| | | | | Luc Jaeger |
|---------------------|-----------|------------------|---------|------------------------------------|
| Date: | | | | |
| United States of Am | nerica · |) | | |
| State of | |) s: | s.: | |
| County of | |) | | |
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| On this | day of | | , | , before me |
| personally came | - | Luc Jaeger | | , to me known to be the individual |
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| of the same. | | 0 0 | • | , |
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| | Isil Severcan |
| Date: 03/07/2012 | |
| United States of America |) |
| State of NEW YORK |) ss.: |
| County of RENSSELAER | |
| • | March 3012, before me evercan, to me known to be the individual foregoing instrument, and acknowledged execution |
| | SCOTT A. SIEGEL Notary Public, State of New York No. 01816078376 Qualified in Albany County Commission Expires 7/29/14 |

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| Date: | | *************************************** | | , |
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| | | Not | ary Public | |

THIS ASSIGNMENT, made this 8th day of March, 2012, by Luc Jaeger; Isil Severcan, Cody Geary; and Kirill Afordin (hereinafter referred to as Assignors), residing at 125 Willow Springs, Apt. 201, Goleta, California 93117, UNITED STATES OF AMERICA; 1365 Van Antwerp Road, Apt. 822, Niskayuna, New York, UNITED STATES OF AMERICA; 2015 Red Rose Way #D, Santa Barbara, California 93109, UNITED STATES OF AMERICA, and 1724 Carriage Way, Frederick, Maryland 21702, UNITED STATES OF AMERICA, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in RNA NANOPARTICLES AND METHODS OF USE, set forth in an application having United States Serial Number 13/378,935, filed on December 16, 2011, which claims priority to International Patent Application No. PCT/US2010/038818, filed on June 16, 2010, which in turn claims the prior benefit of U.S. Provisional Application No. 61/187,495, filed on June 16, 2009; and

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to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 46037

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

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| THIS ASSIGNMENT, made this day of,, |
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| by Luc Jaeger; Isil Severcan; Cody Geary; and Kirill Afonin (hereinafter referred to as |
| Assignors), residing at 125 Willow Springs, Apt. 201, Goleta, California 93117, |
| UNITED STATES OF AMERICA; 1365 Van Antwerp Road, Apt. B22, Niskayuna, New |
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EDWARDS WILDMAN PALMER LLP

All practitioners at Customer Number 46037

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

| | | | Luc | c Jaeger | |
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| | | Isil Severcan |
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