

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>Theo Nikiforov</td><td>10/05/2010</td></tr><tr><td>Daniel Mazur</td><td>10/08/2010</td></tr><tr><td>Xinzhan Peng</td><td>10/04/2010</td></tr><tr><td>Tommie Lloyd Lincecum Jr.</td><td>08/12/2011</td></tr><tr><td>Yuri Belosludtsev</td><td>11/09/2010</td></tr><tr><td>Howard Reese</td><td>10/04/2010</td></tr><tr><td>Dmitriy Gremyachinskiy</td><td>10/05/2010</td></tr><tr><td>Roman Rozhkov</td><td>11/07/2011</td></tr><tr><td>John M. Mauro</td><td>10/05/2010</td></tr><tr><td>Joseph Beechem</td><td>10/08/2010</td></tr><tr><td>Eric Tulskey</td><td>08/17/2011</td></tr><tr><td>Imad Naasani</td><td>10/12/2010</td></tr><tr><td>Kari Haley</td><td>10/04/2010</td></tr><tr><td>Joseph A. Treadway</td><td>11/19/2010</td></tr></tbody></table>		Name	Execution Date	Theo Nikiforov	10/05/2010	Daniel Mazur	10/08/2010	Xinzhan Peng	10/04/2010	Tommie Lloyd Lincecum Jr.	08/12/2011	Yuri Belosludtsev	11/09/2010	Howard Reese	10/04/2010	Dmitriy Gremyachinskiy	10/05/2010	Roman Rozhkov	11/07/2011	John M. Mauro	10/05/2010	Joseph Beechem	10/08/2010	Eric Tulskey	08/17/2011	Imad Naasani	10/12/2010	Kari Haley	10/04/2010	Joseph A. Treadway	11/19/2010
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<table border="1"><tr><td>Name:</td><td>Life Technologies Corporation</td></tr><tr><td>Street Address:</td><td>5791 Van Allen Way</td></tr><tr><td>City:</td><td>Carlsbad</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>92008</td></tr></table>		Name:	Life Technologies Corporation	Street Address:	5791 Van Allen Way	City:	Carlsbad	State/Country:	CALIFORNIA	Postal Code:	92008																				
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PROPERTY NUMBERS Total: 4																															
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>61184770</td></tr><tr><td>Application Number:</td><td>61299919</td></tr><tr><td>Application Number:</td><td>12748355</td></tr><tr><td>PCT Number:</td><td>US1028974</td></tr></tbody></table>		Property Type	Number	Application Number:	61184770	Application Number:	61299919	Application Number:	12748355	PCT Number:	US1028974																				
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CH \$160.00 61184770

501716403

PATENT
REEL: 027189 FRAME: 0201

CORRESPONDENCE DATA**Fax Number:** (760)268-8393**Email:** LifetechDocket@system.foundationip.com*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.***Correspondent Name:** Nishita Doshi**Address Line 1:** 5791 Van Allen Way**Address Line 2:** Life Technologies Corporation**Address Line 4:** Carlsbad, CALIFORNIA 92008**ATTORNEY DOCKET NUMBER:**

LT00003

NAME OF SUBMITTER:

Elizabeth Morgan

Total Attachments: 17

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ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, the undersigned, do hereby:

- ☒ for which a non-provisional application was filed in the United States Patent and Trademark Office on March 26, 2010, Application Serial No. 12/748,355;

for which an international (PCT) application was filed in the United States Patent and Trademark Office on March 26, 2010, International Application No. PCT/US2010/028974;

for which a provisional application was filed in the United States Patent and Trademark Office on January 29, 2010, Application Serial No. 61/299,919; and

for which a provisional application was filed in the United States Patent and Trademark Office on June 5, 2009, Application Serial No. 61/184,770;

SELL, ASSIGN, AND TRANSFER to Life Technologies Corporation (the "Assignee", a corporation of the State of Delaware), having a place of business at 5791 Van Allen Way, Carlsbad, CA 92008, the entire right, title, and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in U.S. Application Serial No. 12/748,355 (filed on March 26, 2010 and entitled "CONJUGATES OF BIOMOLECULES TO NANOPARTICLES"), International (PCT) Application No.: PCT/US2010/028974 (filed on March 26, 2010 and entitled "CONJUGATES OF BIOMOLECULES TO NANOPARTICLES"), U.S. Application Serial No. 61/299,919 (filed on January 29, 2010 and entitled "CONJUGATES OF BIOMOLECULES TO NANOPARTICLES"), and U.S. Application Serial No. 61/184,770 (filed on June 5, 2009 and entitled "CONJUGATES OF BIOMOLECULES TO NANOPARTICLES"), such applications and all utility, divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all utility, divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United States and all foreign countries and that claim priority to any one or more of said U.S. Application Serial No. 12/748,355,

Assignment

International (PCT) Application No. PCT/US2010/028974, U.S. Application Serial No. 61/299,919, and U.S. Application Serial No. 61/184,770; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file United States and foreign applications under the provisions of any convention or treaty and claim priority based on any one or more of such applications;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned.

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney, and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible for which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining, and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives, and successors of the undersigned and extend to the successors, assigns, and nominees of the Assignee.

Signature: T. Nikiforov
Name (1) Theo NIKIFOROV

Date: 10/5/2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

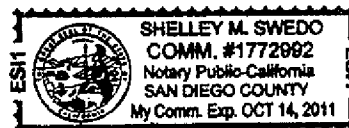
STATE OF _____)
COUNTY OF _____) ss.

On October 5, 2010 before me, Shelley M. Swedo, Notary Public, personally appeared, Theo NIKIFOROV, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Shelley M. Swedo (Seal)



Signature: *Daniel Mazur*
Name (2) Daniel MAZUR

Date: 10/08/2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

STATE OF _____)
COUNTY OF _____) ss.

On October 8, 2010 before me, Shelley M. Swedo, Notary Public,
personally appeared, Daniel MAZUR, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Shelley M. Swedo* (Seal)



Signature: Xinzhao Peng
Name (3) Xinzhao PENG

Date: 10/4/2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

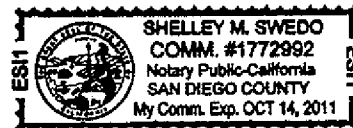
STATE OF _____)
COUNTY OF _____) ss.

On October 4, 2010 before me, Shelley M. Swedo, Notary Public,
personally appeared, Xinzhao PENG, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Shelley M. Swedo (Seal)



Signature: [Signature]
Name (4) Tommie Lloyd LINCECUM, Jr.

Date: 8/12/11

Witnessed by:

Name: _____

Signature: _____

Date: _____

STATE OF California)
COUNTY OF San Diego) ss.

On 12 August 2011 before me, Brenda Mannon, Notary Public,
personally appeared, Tommie Lloyd LINCECUM, Jr., who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Brenda Mannon (Seal)



Signature: Yuri Belosludtsev

Name (5) Yuri BELOSLUDTSEV

Date: 11-9-2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

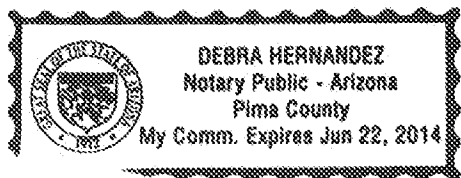
STATE OF)
COUNTY OF) ss.
)

On November 9, 2010 before me, Debra Hernandez,
personally appeared, Yuri BELOSLUDTSEV, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Texas that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Debra Hernandez (Seal)



Signature: Howard Reese
Name (6) Howard REESE

Date: Oct 4, 2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

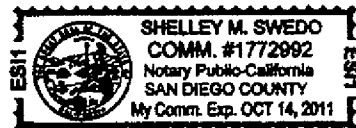
STATE OF _____)
COUNTY OF _____) ss.
_____)

On October 4, 2010 before me, Shelley M. Swedo, Notary Public,
personally appeared, Howard REESE, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Shelley M. Swedo (Seal)



Signature: [Signature]
Name (7) Dmitriy GREMYACHINSKIY

Date: 10/05/10

Witnessed by:

Name: _____

Signature: _____

Date: _____

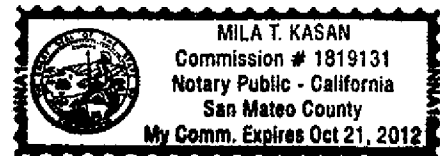
STATE OF California)
COUNTY OF San Mateo) ss.

On October 5, 2010 before me, Mila T. Kasan, Notary Public
personally appeared, Dmitriy GREMYACHINSKIY, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct. not 10/5/10

WITNESS my hand and official seal.

Signature Mila T. Kasan (Seal)



Signature: *Rozhkov*
Name (8) Roman ROZHKOV

Date: 7-Nov-2011

Witnessed by:

Name: _____

Signature: _____

Date: _____

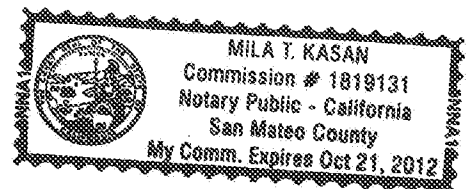
STATE OF California)
COUNTY OF San Mateo) ss.

On Nov. 7, 2011 before me, Mila T. Kasan, Notary Public,
personally appeared, Roman ROZHKOV, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of California that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Mila T. Kasan* (Seal)



Signature: *J. M. Mauro*

Name (9) John M. MAURO

Date: 10/5/2010

Witnessed by:

Name: Tsui-Li WuSignature: *Tsui-Li Wu*Date: 10/05/2010

STATE OF OREGON

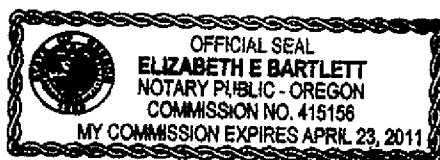
COUNTY OF LANE

) ss.
)

On 05-Oct-2010 before me, ELIZABETH E. BARTLETT,
 personally appeared, John M. MAURO, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the
 foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature *Elizabeth E. Bartlett* (Seal)

Signature: [Signature]
Name (10) Joseph BEECHEM

Date: 10-08-2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

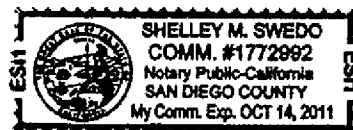
STATE OF _____)
COUNTY OF _____) ss.

On October 8, 2010 before me, Shelley M. Swedo, Notary Public,
personally appeared, Joseph BEECHEM, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature [Signature] (Seal)



Signature: ET
Name (11) Eric TULSKY

Date: 8/17/11

Witnessed by:

Name: Karen Sosa

Signature: KS

Date: 8/17/11

STATE OF California)
COUNTY OF Alameda) ss.

On August 17, 2011 before me, Karen Sosa,
personally appeared, Eric TULSKY, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of ^{California} ~~Oregon~~ ^{KS} that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature KS (Seal)

Signature: Imad Naasani
Name (12) Imad NAASANI

Date: Oct 12, 2010

Witnessed by:

Name: JAMES M GILLES

Signature: James M Gilles

Date: 12/10/10

Signature: Kari Haley
Name (13) Kari HALEY

Date: 10/4/2010

Witnessed by:

Name: _____

Signature: _____

Date: _____

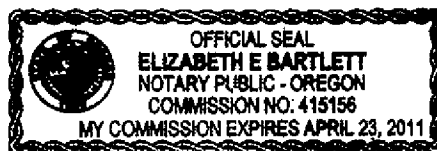
STATE OF OREGON)
) ss.
COUNTY OF LANE)

On 04-October-2010 before me, ELIZABETH E. BARTLETT,
personally appeared, Kari HALEY, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Elizabeth E. Bartlett (Seal)



Signature: *Joseph A. Treadway*
Name (14) Joseph A. TREADWAY

Date: 11/19/2010

Witnessed by:

Name: Jeffrey Larson

Signature: *Jeffrey Larson*

Date: 11/19/2010

STATE OF)
COUNTY OF) ss.
)

On _____ before me, _____,
personally appeared, Joseph A. TREADWAY, who 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.

I certify under PENALTY OF PERJURY under the laws of the State of Oregon that the
foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature _____ (Seal)

The Assignee hereby accepts the above assignment of the Patent Rights and all other rights assigned by this assignment

SIGNATURE of Applicant or Assignee of Record

A handwritten signature in black ink, appearing to read 'A. W. Hammond', written over a horizontal line.

Alan W. Hammond, Chief Intellectual Property Counsel
Life Technologies Corporation