503792643 04/20/2016

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

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 TULSKY	08/17/2011
IMAD NAASANI	10/12/2010
KARI HALEY	10/04/2010
JOSEPH A. TREADWAY	11/19/2010

RECEIVING PARTY DATA

Name:	LIFE TECHNOLOGIES CORPORATION
Street Address:	5791 Van Allen Way
City:	Carlsbad
State/Country:	CALIFORNIA
Postal Code:	92008

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14087307

CORRESPONDENCE DATA

Fax Number: (760)476-6048

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 650-266-5805

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PATENT REEL: 038336 FRAME: 0702

503792643

Correspondent Name: LIFE TECHNOLOGIES CORPORATION

Address Line 1: 5823 NEWTON DRIVE Address Line 2: IP DEPARTMENT

Address Line 4: CARLSBAD, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	LT00003 DIV
NAME OF SUBMITTER:	MILA T. KASAN
SIGNATURE:	/Mila T. Kasan/
DATE SIGNED:	04/20/2016

Total Attachments: 17

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PATENT REEL: 038336 FRAME: 0703

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.

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. W. Lu form		Date: 10/5/2010
Name (1) Theo NIKIFOROV		
Witnessed by:		
Name:		
Signature:		Date:
STATE OF)	
COUNTY OF) SS.)	
on <u>October 5, 2010</u>	_ before me, She	ley M. Swedo, Public.
personally appeared,T	heo NIKIFOROV	, who proved to me on the
basis of satisfactory evidence to be	e the person (s) who	se name (s) is/ are subscribed to
the within instrument and acknowle		
his/her/their authorized capacity(ie	s), and that by his /h	er/their signature (s) on the
instrument the person(s), or the er	ntity upon behalf of w	hich the person (s) -acted,
executed the instrument.		
I certify under PENALTY OF PERJ	IFIRY under the laws	of the State of Colifornia that the
foregoing paragraph is true and co		on the state of California that the
roregoing paragraph is true and to	Tect.	
WITNESS my hand and official sea	al.	SHELLEY M. SWEDO COMM. #1772992
Signature Sulla 1. Sur	(Seal)	Notary Public-California SAN DIEGO COUNTY My Comm. Exp. OCT 14, 2011
-	(-50.)	

Atty. Dkt. No.: LT00003 Signature: Name (2) Daniel MAZ Witnessed by: Name: _____ Signature: Date: STATE OF) ss. **COUNTY OF** 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.

Assignment

(Seal)

Signature

Atty. Dkt. No.: LT00003 Date: 10/4/2010 Name (3) Xinzhan PENG Witnessed by: Name: _____ Signature: Date:__ STATE OF) ss. **COUNTY OF** , 2010 before me, Shellay M. Swec Xinzhan 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.

Assignment

(Seal)

Atty. Dkt. No.: LT00003 8/12/11 Signature: // Date: Name (4) Tommie Lloyd LINCECUM, Jr. Witnessed by: Name: _____ Signature: Date: before me. Ill Ma Tommie Lloyd LINCECUM, Jr. personally appeared. , 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



41	٠		Atty. Dkt. No.: LT00003
Signature: Win Belos Name (5) Yuri BELOS LUDTSEV	<u>ludtse</u>	Date:	11-9-2010
Witnessed by:			
Name:			
Signature:		Date:	
STATE OF)		
COUNTY OF) ss.)		
On November 9, 2010	_ before me, <u>Otho</u>	a. Herna	ndez,
personally appeared,			
me on the basis of satisfactory evid	•		
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.	,		,,,,
Legrify under PENALTY OF PERJ	ILIRY under the law	rs of the S	tate of Texas that the
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 sea	al.		
Signature <u>Debra Harnam</u>	<u> </u>	i)	
word and a Carlo	&		
DEBRA HERN Notary Public - Pima Cou My Comm. Expires .	Arizona nty		

Signature: Assured Re	0 14 Date: <u>Oct 4, 2010</u>
Name (6) Howard REESE	
Witnessed by:	
Name:	
Signature:	Date:
STATE OF	
STATE OF)) ss.
COUNTY OF)
on <u>October 4, 2010</u>	before me, Shelley M. Swedo, Public,
personally appeared,	Howard REESE , who proved to me
on the basis of satisfactory evidence	ce 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/h er /t hei r authorized	d 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.	
andiferration DENIAL TV OF DED.	
	URY under the laws of the State of California that the
oregoing paragraph is true and co	Tect.
WITNESS my hand and official sea	SHELLEY M. SWEDO
	Notary Public California SAN DIEGO COUNTY Ny Comm. Exp. OCT 14, 2011
Signature Sulle (1. X	Wado (Seal)
-	(2001)

Signature: Date Name (7) Epritriy GREMYACHINSKIY	Atty. Dkt. No.: LT00003 e: 10 05 10
Witnessed by:	
Name:	
Signature: Date	e:
STATE OF California)	
STATE OF California) COUNTY OF San mates)	
On October 5 2010 before me, mila 7	T. Kason, Motary Public
On October 5 2010 before me, mila 7 personally appeared, Dmitriy GREMYACHINS	KIY , who proved
to me on the basis of satisfactory evidence to be the perso	
subscribed to the within instrument and acknowledged to m	
the same in his/her/their authorized capacity(ies), and that	
on the instrument the person(s), or the entity upon behalf o	
executed the instrument.	
I certify under PENALTY OF PERJURY under the laws of the foregoing paragraph is true and correct.	California he State of Oregon that the next 1015/10
WITNESS my hand and official seal.	
Signature _ Hika T. Kasa (Seal)	MILA T. KASAN Commission # 1819131 Notary Public - California

Commission # 1819131
Notary Public - California
San Mateo County
My Comm. Expires Oct 21, 2012

Signature: Love Policy Name (8) Roman ROZHKOV	Date: 4- Nov - 24/11
Witnessed by:	
Name:	
Signature:	Date:
STATE OF California)) ss. COUNTY OF San mater)	
On <u>Nov. 3, 2011</u> before me, _	mila T. Kasan, Motary Public,
personally appeared, Roman ROZ	HKOV , who proved to me
on the basis of satisfactory evidence to be the p	erson(s) whose name(s) is/are
subscribed to the within instrument and acknowledge	ledged to me that he/she/they executed
the same in his/her/their authorized capacity(ies	s), and that by his/her/their signature(s)
on the instrument the person(s), or the entity up	on behalf of which the person(s) acted,
executed the instrument.	
I certify under PENALTY OF PERJURY under the	he laws of the State of California that the
foregoing paragraph is true and correct.	
WITNESS my hand and official seal.	
Signature 964 T. Kasa-	Mil.A T. KASAN Commission # 1819131 Notary Public - California San Mateo County My Comm. Expires Oct 21, 2012
	- x x x m m m m m m m m m m m m m m m m

Atty. Dkt. No.: LT00003 Signature: Date: Date:
Witnessed by: Name:
STATE OF ORGGON)) ss. COUNTY OF LANG)
On <u>05-Oct-2010</u> before me, <u>ELIZABETH E. BARTLETT</u> , personally appeared, <u>John M. MAURO</u> , 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 Lizabeth EButlett (Seal)
OFFICIAL SCAL ELIZABETH E BARTLETT NOTARY PLIBLIC - OREGON COMMISSION NO. 415156 MY COMMISSION EXPIRES APRIL 23, 2011

Signature:	Date: 10-08-2010
Name (10) Goseph BEECHEM	
Witnessed by:	
Name:	
Signature:	Date:
STATE OF)
COUNTY OF) ss.)
on <u>October 8, 2010</u>	before me, Shelley M. Swedo, Public,
personally appeared,	Joseph BEECHEM , who proved to me
on the basis of satisfactory evidence	ce to be the person (s) whose name (s) is/ are
	and acknowledged to me that he/she/they executed
the same in his /her/thei r authorized	capacity (ies) , and that by his/ her/their signature(s)
	the entity upon behalf of which the person (s) acted,
executed the instrument.	
certify under PENALTY OF PERJ	URY under the laws of the State of Oregon that the
foregoing paragraph is true and cor	
WITNESS my hand and official sea	T WEST BELLOWING WILLIAM (II
$\Omega_{0}\Omega_{0}\Omega_{1}\Omega_{0}$	Notary Public-California SAN DIEGO COUNTY My Comm. Exp. OCT 14, 2011
Signature Studies (1.500)	(Seal)
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	

Signature: 4.3	Date: 8//7/1)
Name (11) Eric TULSKY	
Witnessed by:	
Name: <u>Karen</u> Sosa	
Signature:	Date: 8 / 17 / 1/
STATE OF California) COUNTY OF Alameda)	
county of Alameda i	
On August 17, 201 before me, personally appeared, Eric TULSKY	Karen Sosa
personally appeared, <u>Eric TULSKY</u>	, who proved to me on the
basis of satisfactory evidence to be the person(s) w	hose 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	s/her/their signature(s) on the
instrument the person(s), or the entity upon behalf of	of which the person(s) acted,
executed the instrument.	
I certify under PENALTY OF PERJURY under the la	Cahfornia KS aws of the State of Oregon that the
torogonia paragrapii to trao arra con con	
WITNESS my hand and official seal.	
Signature(S	eal)

Atty.	Dkt.	No.:	LT	0000	3
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Signature: /mod/ Name (12) Imad NAASANI

Date: Oct 12, 2010

Witnessed by:

Name: JAMES M GILLIES

Signature: Signature: Date: 12/10/10

Atty. Dkt. No.: LT00003 Date: 10/4/2010 Name (13) Kari HALE Witnessed by: Name: _ Signature: Date: STATE OF ORSGON) ss. COUNTY OF LANG On 04-October - 2010 before me, ELIZABETH B. BALTLETY 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. OFFICIAL SEAL

Atty. Dkt. No.: LT00003 Date:___//_ Witnessed by: Lowson

Meg Date: 11/19/2018 Signature: STATE OF) ss. **COUNTY OF** ____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

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