## 502644004 01/21/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT2690612

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
MELVILLE DAVEY	08/23/2013
MICHAEL MEYER	08/22/2013
MARCIN SIKORA	08/22/2013
SIMON CAWLEY	01/20/2014
KIRK PASTORIAN	10/14/2013

## **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:	13967665

# **CORRESPONDENCE DATA**

502644004

Fax Number:

Email: LifetechDocket@system.foundationip.com

Correspondence will be sent via US Mail when the email attempt is unsuccessful.

Correspondent Name: CHRISTIAN D'AVIGNON-AUBUT

Address Line 1: 5791 VAN ALLEN WAY

Address Line 2: LIFE TECHNOLOGIES CORPORATION
Address Line 4: CARLSBAD, CALIFORNIA 92008

ATTORNEY DOCKET NUMBER:	LT00316 CIP
NAME OF SUBMITTER:	ELIZABETH MORGAN

Signature:	/Elizabeth Morgan/
Date:	01/21/2014
Total Attachments: 15 source=LT00316CIP-Executed-Assignment#page1.tif source=LT00316CIP-Executed-Assignment#page2.tif source=LT00316CIP-Executed-Assignment#page3.tif source=LT00316CIP-Executed-Assignment#page4.tif source=LT00316CIP-Executed-Assignment#page5.tif source=LT00316CIP-Executed-Assignment#page6.tif source=LT00316CIP-Executed-Assignment#page7.tif source=LT00316CIP-Executed-Assignment#page8.tif source=LT00316CIP-Executed-Assignment#page9.tif source=LT00316CIP-Executed-Assignment#page9.tif source=LT00316CIP-Executed-Assignment#page10.tif	
source=LT00316CIP-Executed-Assignment#page11.tif source=LT00316CIP-Executed-Assignment#page12.tif	
source=LT00316CIP-Executed-Assignment#page13.tif source=LT00316CIP-Executed-Assignment#page14.tif source=LT00316CIP-Executed-Assignment#page15.tif	

#### <u>ASSIGNMENT</u>

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, I/we:

- Melville DAVEY, a citizen of US; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of Westbrook, CT.
- 2. Michael MEYER, a citizen of US; having a mailing address of

  122 Linn St., Ithaca, New York 14850;

  and a resident of Ithaca, NY.
- Marcin SIKORA, a citizen of PL; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of Foster City, CA.
- 4. Simon CAWLEY, a citizen of **IE**; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;
  and a resident of **Oakland**, **CA**.
- 5. Kirk Pastorian, a citizen of US; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of Temecula, CA.

do hereby 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, California 92008, USA 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 United States Non-provisional Patent Application, Serial No. 13/967,665, filed on August 15, 2013 entitled METHODS AND APPARATUSES FOR ESTIMATING PARAMETERS IN A PREDICTIVE MODEL FOR USE IN SEQUENCING-BY-SYNTHESIS, and such applications and all divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United

Lof3

States and all foreign countries on any of such improvements; 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 foreign applications under the provisions of any convention or

treaty and claim priority based on such application in the United States;

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; and

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.

Name (1) Melville DAVEY

Date:

Signature:

Name (2) Michael MEYER.

Date:

2 of 3

Signature:	Dates
Signature: Name (3) Marcin SIKORA	
Cianatana)	Thata:
Signature:Name (4) Sinion CAWLEY	Date:
	w
Signature: Name (5) Kirk Pastorian	Date:
a restrict for a rate in a restrict cont.	

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, I/we:

1. Melville DAVEY, a citizen of US; having a mailing address of

LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Westbrook, CT.

2. Michael MEYER, a citizen of US; having a mailing address of

122 Linn St., Ithaca, New York 14850;

and a resident of Ithaca, NY.

3. Marcin SIKORA, a citizen of PL; having a mailing address of

LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Foster City, CA.

4. Simon CAWLEY, a citizen of IE; having a mailing address of

LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Oakland, CA.

5. Kirk Pastorian, a citizen of US; having a mailing address of

LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Temecula, CA.

do hereby 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, California 92008, USA 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 United States Non-provisional Patent Application, Serial No. 13/967,665, filed on August 15, 2013 entitled METHODS AND APPARATUSES FOR ESTIMATING PARAMETERS IN A PREDICTIVE MODEL FOR USE IN SEQUENCING-BY-SYNTHESIS, and such applications and all divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United

1 of 3

States and all foreign countries on any of such improvements; 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 foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

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; and

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:	Date:
Name (1) Melville DAVEY	
	·
Signature: Mulled J. Mey C. Name (2) Michael MEYER	Date: 08/22/2013
Name (2) Michael MEYER $\checkmark$	•

Signature:	Date:	
Name (3) Marcin SIKORA		
·		
Signature:	Date:	
Name (4) Simon CAWLEY		
	•	
Signature:	Date:	
Name (5) Kirk Pastorian		

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, I/we:

1. Melville DAVEY, a citizen of **US**; having a mailing address of LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Westbrook, CT.

2. Michael MEYER, a citizen of US; having a mailing address of

122 Linn St., Ithaca, New York 14850;

and a resident of Ithaca, NY.

- 3. Marcin SIKORA, a citizen of **PL**; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of **Foster City**, **CA**.
- 4. Simon CAWLEY, a citizen of **IE**; having a mailing address of LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008; and a resident of **Oakland**, **CA**.
- 5. Kirk Pastorian, a citizen of **US**; having a mailing address of LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008; and a resident of **Temecula**, **CA**.

do hereby 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, California 92008, USA 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 United States Non-provisional Patent Application, Serial No. 13/967,665, filed on August 15, 2013 entitled METHODS AND APPARATUSES FOR ESTIMATING PARAMETERS IN A PREDICTIVE MODEL FOR USE IN SEQUENCING-BY-SYNTHESIS, and such applications and all 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 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 foreign applications under the provisions of any convention or

treaty and claim priority based on such application in the United States;

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; and

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:

Name (1) Melville DAVEY

Signature:

Name (2) Michael MEYER

Data

Date:

2 of 3

Signature: Name (3) Marcin SIKORA	Date: 8/22/2013
Signature:Name (4) Simon CAWLEY	Date:
Signature:Name (5) Kirk Pastorian	Date:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, I/we:

- 1. Melville DAVEY, a citizen of US; having a mailing address of
- LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

and a resident of Westbrook, CT.

2. Michael MEYER, a citizen of US; having a mailing address of

122 Linn St., Ithaca, New York 14850;

and a resident of Ithaca, NY.

- Marcin SIKORA, a citizen of PL; having a mailing address of
   LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;
   and a resident of Foster City, CA.
- Simon CAWLEY, a citizen of IE; having a mailing address of
   LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;
   and a resident of Oakland, CA.
- Kirk Pastorian, a citizen of US; having a mailing address of
   LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;
   and a resident of Temecula, CA.

do hereby 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, California 92008, USA 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 United States Non-provisional Patent Application, Serial No. 13/967,665, filed on August 15, 2013 entitled METHODS AND APPARATUSES FOR ESTIMATING PARAMETERS IN A PREDICTIVE MODEL FOR USE IN SEQUENCING-BY-SYNTHESIS, and such applications and all 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 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 foreign applications under the provisions of any convention or

treaty and claim priority based on such application in the United States;

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; and

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: \_\_\_\_\_\_ Date: \_\_\_\_\_

Name (1) Melville DAVEY

Signature: Date:

Name (2) Michael MEYER

Signature:	Date:
Name (3) Marcin SIKORA	
Signature: Signature: Name (4) Simon CAWLEY	Date: 1/20/2014
Signature:Name (5) Kirk Pastorian	Date:

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged, I/we:

- Melville DAVEY, a citizen of US; having a mailing address of LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008; and a resident of Westbrook, CT.
- 2. Michael MEYER, a citizen of US; having a mailing address of 122 Linn St., Ithaca, New York 14850;

and a resident of Ithaca, NY.

- 3. Marcin SIKORA, a citizen of **PL**; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of **Foster City**, **CA**.
- 4. Simon CAWLEY, a citizen of IE; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of Oakland, CA.
- 5. Kirk Pastorian, a citizen of US; having a mailing address of

  LIFE TECHNOLOGIES CORPORATION, 5791 Van Allen Way, Carlsbad, California 92008;

  and a resident of **Temecula**, CA.

do hereby 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, California 92008, USA 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 United States Non-provisional Patent Application, Serial No. 13/967,665, filed on August 15, 2013 entitled METHODS AND APPARATUSES FOR ESTIMATING PARAMETERS IN A PREDICTIVE MODEL FOR USE IN SEQUENCING-BY-SYNTHESIS, and such applications and all divisional, continuing, substitute, renewal, reissue, and all other applications for patent which have been or shall be filed in the United

1 of 3

States and all foreign countries on any of such improvements; 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 foreign applications under the provisions of any convention or

treaty and claim priority based on such application in the United States;

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; and

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:	Date:

Name (1) Melville DAVEY

Signature: Date:

Name (2) Michael MEYER

2 of 3

Signature:	Date:
Name (3) Marcin SIKORA	
Signature:	Date:
Name (4) Simon CAWLEY	Date.
	, ,
Simotore My REstorian	Data: 10/14/13
Signature: ////	Date:
Name (5) Kirk Pastorian	