

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4139150

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALI AFZALI-ARDAKANI	01/22/2015
STEFAN HARRER	01/23/2015
BINQUAN LUAN	01/22/2015
HONGBO PENG	02/11/2015
STEPHEN M. ROSSNAGEL	01/23/2015
AJAY K. ROYYURU	02/02/2015
GUSTAVO A. STOLOVITZKY	01/22/2015
PHILIP S. WAGGONER	02/11/2015
RECEIVING PARTY DATA	
Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION
Street Address:	NEW ORCHARD ROAD
City:	ARMONK
State/Country:	NEW YORK
Postal Code:	10504
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15349285
CORRESPONDENCE DATA	
Fax Number:	(404)607-9981
<i>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.</i>	
Phone:	860-286-2929
Email:	usptopatentmail@cantorcolburn.com
Correspondent Name:	CANTOR COLBURN LLP-IBM YORKTOWN
Address Line 1:	20 CHURCH STREET
Address Line 2:	22ND FLOOR
Address Line 4:	HARTFORD, CONNECTICUT 06103
ATTORNEY DOCKET NUMBER:	YOR920110046US5
NAME OF SUBMITTER:	DUANE P. MINLEY
SIGNATURE:	/Duane P. Minley/

PATENT

DATE SIGNED:	11/11/2016
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 24 source=7PO7322#page1.tif source=7PO7322#page2.tif source=7PO7322#page3.tif source=7PO7322#page4.tif source=7PO7322#page5.tif source=7PO7322#page6.tif source=7PO7322#page7.tif source=7PO7322#page8.tif source=7PO7322#page9.tif source=7PO7322#page10.tif source=7PO7322#page11.tif source=7PO7322#page12.tif source=7PO7322#page13.tif source=7PO7322#page14.tif source=7PO7322#page15.tif source=7PO7322#page16.tif source=7PO7322#page17.tif source=7PO7322#page18.tif source=7PO7322#page19.tif source=7PO7322#page20.tif source=7PO7322#page21.tif source=7PO7322#page22.tif source=7PO7322#page23.tif source=7PO7322#page24.tif	

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: DNA SEQUENCING USING MULTIPLE METAL LAYER STRUCTURE WITH DIFFERENT ORGANIC COATINGS FORMING DIFFERENT TRANSIENT BONDINGS TO DNA

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

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Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns,

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(1) Legal Name of Inventor: Ali Afzali-Ardakani

Signature: Ali Afzali-Ardakani Date: 01-22-2015

(2) Legal Name of Inventor: Stefan Harrer

Signature: _____ Date: _____

(3) Legal Name of Inventor: Binquan Luan

Signature: _____ Date: _____

(4) Legal Name of Inventor: Hongbo Peng

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: **Stephen M. Rossnagel**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **Ajay K. Royyuru**

Signature: _____ Date: _____

(7) Legal Name of Inventor: **Gustavo A. Stolovitzky**

Signature: _____ Date: _____

(8) Legal Name of Inventor: **Philip S. Waggoner**

Signature: _____ Date: _____

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23/01/2015

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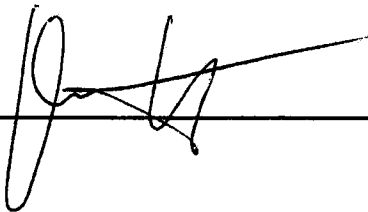
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(1) Legal Name of Inventor: **Ali Afzali-Ardakani**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Stefan Harrer**

Signature:  _____ Date: 23/01/2015

(3) Legal Name of Inventor: **Binquan Luan**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Hongbo Peng**

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: **Stephen M. Rossnagel**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **Ajay K. Royyuru**

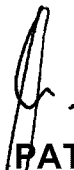
Signature: _____ Date: _____

(7) Legal Name of Inventor: **Gustavo A. Stolovitzky**

Signature: _____ Date: _____

(8) Legal Name of Inventor: **Philip S. Waggoner**

Signature: _____ Date: _____

 23/01/2015
PATENT

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Signature: _____ Date: _____

(2) Legal Name of Inventor: Stefan Harrer

Signature: _____ Date: _____

(3) Legal Name of Inventor: Binqun Luan

Signature:  _____ Date: 1/22/2015

(4) Legal Name of Inventor: Hongbo Peng

Signature: _____ Date: _____

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Signature:  _____ Date: 2/11/15

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Signature: _____ Date: _____

(3) Legal Name of Inventor: **Binquan Luan**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Hongbo Peng**

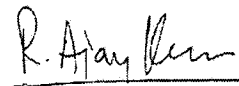
Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: **Stephen M. Rossnagel**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **Ajay K. Royyuru**



Signature: _____ Date: 02/02/2015

(7) Legal Name of Inventor: **Gustavo A. Stolovitzky**

Signature: _____ Date: _____

(8) Legal Name of Inventor: **Philip S. Waggoner**

Signature: _____ Date: _____

DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

Title of Invention: **DNA SEQUENCING USING MULTIPLE METAL LAYER STRUCTURE WITH DIFFERENT ORGANIC COATINGS FORMING DIFFERENT TRANSIENT BONDINGS TO DNA**

As a below named and undersigned inventor, I hereby declare that:

This declaration is directed to the attached application, or (if following box is checked):

United States application or PCT international application number _____ filed on _____.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the IBM Docket Number provided above in the header of this document;

Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns,

whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: **Ali Afzali-Ardakani**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Stefan Harrer**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Binquan Luan**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Hongbo Peng**

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]


(5) Legal Name of Inventor: **Stephen M. Rossnagel**

Signature: _____ Date: _____

(6) Legal Name of Inventor: **Ajay K. Royyuru**

Signature: _____ Date: _____

(7) Legal Name of Inventor: **Gustavo A. Stolovitzky**



Signature: _____ Date: Jan 22, 2015

(8) Legal Name of Inventor: **Philip S. Waggoner**

Signature: _____ Date: _____

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Whereas, International Business Machines Corporation (herein referred to as the "ASSIGNEE"), a corporation of New York having a place of business at Armonk, New York, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns,

whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

(1) Legal Name of Inventor: **Ali Afzali-Ardakani**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Stefan Harrer**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Binquan Luan**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Hongbo Peng**

Signature: _____ Date: _____

[IF MORE INVENTORS, ADDITIONAL SIGNATURE PAGE(S) FOLLOWS]

(5) Legal Name of Inventor: Stephen M. Rossnagel

Signature: _____ Date: _____

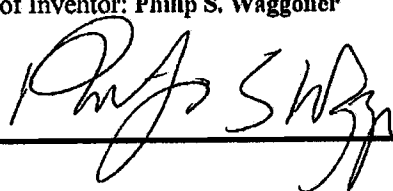
(6) Legal Name of Inventor: Ajay K. Royyuru

Signature: _____ Date: _____

(7) Legal Name of Inventor: Gustavo A. Stolovitzky

Signature: _____ Date: _____

(8) Legal Name of Inventor: Phillip S. Waggoner

Signature:  _____ Date: 2/11/15