

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2689063

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ZIP CODE OF THE RECEIVING PARTY previously recorded on Reel 025032 Frame 0588. Assignor(s) hereby confirms the ZIP CODE OF THE RECEIVING PARTY SHOULD BE 10504.

CONVEYING PARTY DATA

Name	Execution Date
DYLAN JOSEPH BODAY	08/30/2010
LOUIE ARTHUR DICKENS	09/20/2010
STEVEN MARK GROFF	09/16/2010
ICKO ERIC TIMOTHY IBEN	08/30/2010
WAYNE ALAN MCKINLEY	09/08/2010
LEE CURTIS RANDALL	08/31/2010
STEPHEN LEONARD SCHWARTZ	08/31/2010
ANNA W. TOPOL	08/31/2010
DANIEL JAMES WINARSKI	09/03/2010

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:	12888408

CORRESPONDENCE DATA

Fax Number: (713)266-8510
 Phone: (860) 286-2929
 Email: usptopatentmail@cantorcolburn.com
Correspondence will be sent via US Mail when the email attempt is unsuccessful.
 Correspondent Name: CANTOR COLBURN LLP

Address Line 1: 20 CHURCH ST.
Address Line 2: 22ND FLOOR
Address Line 4: HARTFORD, CONNECTICUT 06103

ATTORNEY DOCKET NUMBER:	TUC920090076US5
NAME OF SUBMITTER:	RONALD E. JONES
Signature:	/Ronald E. Jones/
Date:	01/20/2014

Total Attachments: 16

source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page1.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page2.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page3.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page4.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page5.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page6.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page7.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page8.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page9.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page10.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page11.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page12.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page13.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page14.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page15.tif
source=TUC920090076US5_CorrectiveAssignment_20JAN2014#page16.tif

TO: KHANH Q. TRAN COMPANY: 650 HARRY ROAD

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

**09/23/2010
 501299347**

SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr><td>Dylan Joseph Boday</td><td>08/30/2010</td></tr> <tr><td>Louie Arthur Dickens</td><td>09/20/2010</td></tr> <tr><td>Steven Mark Groff</td><td>09/16/2010</td></tr> <tr><td>Icko Eric Timothy Iben</td><td>08/30/2010</td></tr> <tr><td>Wayne Alan McKinley</td><td>09/08/2010</td></tr> <tr><td>Lee Curtis Randall</td><td>08/31/2010</td></tr> <tr><td>Stephen Leonard Schwartz</td><td>08/31/2010</td></tr> <tr><td>Anna W. Topol</td><td>08/31/2010</td></tr> <tr><td>Daniel James Winarski</td><td>09/03/2010</td></tr> </tbody> </table>		Name	Execution Date	Dylan Joseph Boday	08/30/2010	Louie Arthur Dickens	09/20/2010	Steven Mark Groff	09/16/2010	Icko Eric Timothy Iben	08/30/2010	Wayne Alan McKinley	09/08/2010	Lee Curtis Randall	08/31/2010	Stephen Leonard Schwartz	08/31/2010	Anna W. Topol	08/31/2010	Daniel James Winarski	09/03/2010
Name	Execution Date																				
Dylan Joseph Boday	08/30/2010																				
Louie Arthur Dickens	09/20/2010																				
Steven Mark Groff	09/16/2010																				
Icko Eric Timothy Iben	08/30/2010																				
Wayne Alan McKinley	09/08/2010																				
Lee Curtis Randall	08/31/2010																				
Stephen Leonard Schwartz	08/31/2010																				
Anna W. Topol	08/31/2010																				
Daniel James Winarski	09/03/2010																				
RECEIVING PARTY DATA																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Name:</td><td>International Business Machines Corporation</td></tr> <tr><td>Street Address:</td><td>New Orchard Road</td></tr> <tr><td>City:</td><td>Armonk</td></tr> <tr><td>State/Country:</td><td>NEW YORK</td></tr> <tr><td>Postal Code:</td><td>15054</td></tr> </table>		Name:	International Business Machines Corporation	Street Address:	New Orchard Road	City:	Armonk	State/Country:	NEW YORK	Postal Code:	15054										
Name:	International Business Machines Corporation																				
Street Address:	New Orchard Road																				
City:	Armonk																				
State/Country:	NEW YORK																				
Postal Code:	15054																				
PROPERTY NUMBERS Total: 1																					
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12888408</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12888408																
Property Type	Number																				
Application Number:	12888408																				
CORRESPONDENCE DATA																					
Fax Number:	(408)927-5099																				
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>																					
Email:	khanht@us.ibm.com																				
Correspondent Name:	Khanh Q. Tran																				
Address Line 1:	650 Harry Road																				
Address Line 2:	H2-234																				
Address Line 4:	San Jose, CALIFORNIA 95120																				

CH 540.00 12888408

TO: KHANH Q. TRAN COMPANY: 650 HARRY ROAD

ATTORNEY DOCKET NUMBER:	TUC920090076US5
NAME OF SUBMITTER:	Khanh Q. Tran
Total Attachments: 12 source=TUC920090076US5_Assignment#page1.tif source=TUC920090076US5_Assignment#page2.tif source=TUC920090076US5_Assignment#page3.tif source=TUC920090076US5_Assignment#page4.tif source=TUC920090076US5_Assignment#page5.tif source=TUC920090076US5_Assignment#page6.tif source=TUC920090076US5_Assignment#page7.tif source=TUC920090076US5_Assignment#page8.tif source=TUC920090076US5_Assignment#page9.tif source=TUC920090076US5_Assignment#page10.tif source=TUC920090076US5_Assignment#page11.tif source=TUC920090076US5_Assignment#page12.tif	



ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention:

A CIRCUIT FOR DETECTING ANALYTES VIA NANOPARTICLE-LABELED SUBSTANCES WITH ELECTROMAGNETIC READ-WRITE HEADS

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.:

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the 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, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned Inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned Inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, 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.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature: *Dylan S. Boday* Date: 8-20-10
Dylan Joseph Boday

Executed by Inventor 2

Signature: *Louie Arthur Dickens* Date: 9/20/2010
Louie Arthur Dickens

Executed by Inventor 3

Signature: *Steven M Groff* Date: 9/16/2010
Steven Mark Groff

Executed by Inventor 4

Signature: _____ Date: _____
Icko Eric Timothy Iben

Executed by Inventor 5

Signature: _____ Date: _____
Wayne Alan McKinley

Executed by Inventor 6

Signature: *Lee C. Randall* Date: 8-31-10
Lee Curtis Randall

Executed by Inventor 7

Signature: *STEPHEN LEONARD SCHWARTZ* Date: 8/31/2010
Stephen Leonard Schwartz

Executed by Inventor 8

Signature: _____ Date: _____
Anna W. Topol

Executed by Inventor 9

Signature: *Daniel James Winarski* Date: 3 Sept 2010
Daniel James Winarski

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention:

**A CIRCUIT FOR DETECTING ANALYTES VIA NANOPARTICLE-LABELED
SUBSTANCES WITH ELECTROMAGNETIC READ-WRITE HEADS**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.:

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the 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, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned Inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned Inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, 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.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature: _____ Date: _____
Dylan Joseph Boday

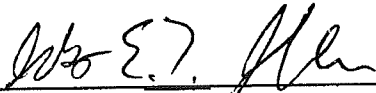
Executed by Inventor 2

Signature: _____ Date: _____
Louie Arthur Dickens

Executed by Inventor 3

Signature: _____ Date: _____
Steven Mark Groff

Executed by Inventor 4

Signature:  Date: 8/30/2010
Icko Eric Timothy Iben

Executed by Inventor 5

Signature: _____ Date: _____
Wayne Alan McKinley

Executed by Inventor 6

Signature: _____ Date: _____
Lee Curtis Randall

Executed by Inventor 7

Signature: _____ Date: _____
Stephen Leonard Schwartz

Executed by Inventor 8

Signature: _____ Date: _____
Anna W. Topol

Executed by Inventor 9

Signature: _____ Date: _____
Daniel James Winarski

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention:

**A CIRCUIT FOR DETECTING ANALYTES VIA NANOPARTICLE-LABELED
SUBSTANCES WITH ELECTROMAGNETIC READ-WRITE HEADS**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.:

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the 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, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned Inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned Inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, 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.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature: _____ Date: _____
Dylan Joseph Boday

Executed by Inventor 2

Signature: _____ Date: _____
Louie Arthur Dickens

Executed by Inventor 3

Signature: _____ Date: _____
Steven Mark Groff

Executed by Inventor 4

Signature: _____ Date: _____
Tim E. T. Iben

Executed by Inventor 5

Signature: Wayne A. McKinley Date: 9/8/10
Wayne Alan McKinley

Executed by Inventor 6

Signature: _____ Date: _____
Lee Curtis Randall

Executed by Inventor 7

Signature: _____ Date: _____
Stephen Leonard Schwartz

Executed by Inventor 8

Signature: _____ Date: _____
Anna W. Topol

Executed by Inventor 9

Signature: _____ Date: _____
Daniel James Winarski

ASSIGNMENT

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention:

**A CIRCUIT FOR DETECTING ANALYTES VIA NANOPARTICLE-LABELED
SUBSTANCES WITH ELECTROMAGNETIC READ-WRITE HEADS**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.:

Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the 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, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the 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, each undersigned Inventor hereby authorizes and requests 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 IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, 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 the undersigned had this Assignment not been made; and each undersigned Inventor agrees 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 IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, 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.

[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature: _____ Date: _____
Dylan Joseph Boday

Executed by Inventor 2

Signature: _____ Date: _____
Louie Arthur Dickens

Executed by Inventor 3

Signature: _____ Date: _____
Steven Mark Groff

Executed by Inventor 4

Signature: _____ Date: _____
Tim E. T. Iben

Executed by Inventor 5

Signature: _____ Date: _____
Wayne Alan McKinley

Executed by Inventor 6

Signature: _____ Date: _____
Lee Curtis Randall

Executed by Inventor 7

Signature: _____ Date: _____
Stephen Leonard Schwartz

Executed by Inventor 8

Signature: *Anna Topol* Date: *8/31/2010*
Anna W. Topol

Executed by Inventor 9

Signature: _____ Date: _____
Daniel James Winarski