Approved for use through 0731/2006. OMB 06 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Internation unless it diagrae a visit OMB 06 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Internation unless it diagrae a visit OMB 06 UTILITY PATEINT APPLICATION TRANSMITTAL (Only for new nanprovisional applications under 37 CFR 1.53(b)) APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patient application contents. 1 Gene Transmittal Form (e.g., PTO/SB/17) (Subtrit in original mode digitability of the processing) 2 Application 2 MPEP chapter 600 concerning utility patient application contents. 3 See MPEP chapter 600 concerning utility patient application contents. 4 Directification 5 coefficienton (COPY) 1 Coarting 10 (St US C 173) 2 Computer Program (Auge ration (ST CFR 1.53(d)) 3 See MPEP chapter 600 concerning and babeticed must stat on a new page. 4 Drawing 10 (US US C 173) 5 Coartification 5 Coartification 1 Coartified Cordination (ST CFR 1.53(d)) 2 Application Data Sheet. See 37 CFR 1.76 3 Application Data Sheet. See 37 CFR 1.76 4 Application Data Sheet. See 37 CFR 1.76 5		•				
OTICLETY PATENT APPLICATION TRANSMITTAL Interventor John Milton (Only for new nonprovisional applications under 37 CFR 1.53(b)) First Inventor John Milton (Only for new nonprovisional applications under 37 CFR 1.53(b)) Express Mail Label No. EM 279335998 US APPLICATION ELEMENTS Commissioner for Patients ADDRESS TO: Commissioner for Patients See MPEP chapter 600 concerning utility patent application contents. ADDRESS TO: Commissioner for Patients APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. ADDRESS TO: Commissioner for Patients See MPEP chapter 600 concerning utility patent application contents. ADDRESS TO: Commissioner for Patients See MPEP chapter 600 concerning utility patent application contents. ADDRESS TO: Commissioner for Patients See MPEP chapter 600 concerning utility patent application for COPY (Total Pages 1.27) South the claims and abtreat must start on a new page for information on the winder anagenes, the MPE accurate on the form of application for Thusentory application for Thusentory for the pages form in the form application for Thusentory for the form of application for Thusentory for the form of application for COPY (Total Pages 1.27) Information The form for COPY of the form of the page form information for the prover of the form in the first sentence of the form in the first sentence of the procendin the must attach form PTO/SB036 or equiva	PTO/SB/05 (09-04) Approved for use through 07/31/2006. OMB 0651-0032 U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE as are required to respond to a collection of information unless it displays a valid OMB control number.	Under the Paperwork Reduction Act of 1995, no p				
O PATENT APPLICATION TRANSMITTAL First inventor John Milton (Only for new nonprovisional applications under 37 CFR 1.53(b)) First inventor John Milton (Only for new nonprovisional applications under 37 CFR 1.53(b)) First inventor John Milton (Only for new nonprovisional application contents. APPLICATION ELEMENTS See MPEP chapter 680 concerning utility patent application contents. ADDRESS TO: Express Mail Label No. EM 279335998 US (Submit an original and a duplicate for fee processing) (Submit an original and a duplicate for fee processing) (Submit an original and a duplicate for fee processing) (Submit an original and a duplicate for fee processing) (South or Declaration (Figs. 1-7) ADDRESS TO: P.O. Box 1450 Abstrand TV 2213-1450 (ACCOMPANYING APPLICATION PARTS See 37 CFR 1.7?. South or Doclaration (Corry) [Total Pages 126 [South or Declaration (Figs. 1-7) Name of Assignee Solexa Limited Name of Assignee Solexa Limited (1) Derawing(s) (35 U.S.C. 113) [Total Sheets	Attorney Docket No. 2713-1-025DIV					
TRANSMITTAL Title MODIFIED NUCLEOTIDES (Only for new nonprovisional applications under 37 CFR 1.53(b)) Title Express Mail Label No. EM 279335998 US APPLICATION ELEMENTS Commissioner for Patents PLOB oncerning utility patent application contents. ADDRESS TO: P.O. Box 1450 Alexandria VA 22313-1460 1 Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fhe processing) See 37 CFR 127. ACCOMPANYING APPLICATION PARTS See 37 CFR 127. ACCOMPANYING APPLICATION PARTS See 37 CFR 127. 3 Specification (COPY) [Total Pages 126 Drifting [5] 05 U.S.C. 113) [Total Core of a polication for Copy II [Total Pages 126 Drifting [5] 05 U.S.C. 113] [Total Core of a processing of the clams and abstract must start on a new page for information on the proteination for or polication (37 CFR 1.53(d)) (for continuation/divisional with Box 18 completed) 1. Notice of Recordation for Illumina Cambridge Limited (1) Notice of Recordation for Illumina Cambridge Limited (2) Notice of Recordation for OrOsBovis or PT 1.63(d)(2) and 1.3(b).	N First Inventor John Milton					
APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents. ADDRESS TO: Commissioner for Patents P.O. Box 1450 1 Fee Transamital Form (e.g., PTO/SB/17) AccomPanyING APPLICATION PARTS 2 Age: 37 CFB int an anali entity status. AccomPanyING APPLICATION PARTS 3 Specification and optimation of patental status dual to a new page Bet the claims and edistical must statu on a new page for infinemation on tor application (35 U S C 113) [Total Sheets (100)] Name of Assignee Solexa Limited 4 Drawing(e) (35 U S C 113) [Total Sheets (100)] (000) Name of Assignee Solexa Limited 5. Optimation on the more analy entity status and the S 18 completed (10) [Cooptimution/divisional with Box 18 completed)] (1) [Disclosure Statement (11 applicable) 5. Optimation Data Sheet. See 37 CFR 1.76 (1) [Disclosure Statement (11 applicable) 1. Denglication Data Sheet. See 37 CFR 1.76 (1) [Disclosure Statement (11 applicable) 1. Denglication Sequence Listing on: i. [] CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)] [] [] [] Rotum Receipt Postcard (MPEP 503) (Should be specification feedbabe Form (CRP)] b. Statements verifying identity of above copies 13. [] Preliminary Amendment 1. CD-ROM or CD-R (2 copies); or ii. [] [] CD-ROM or CD-R (2 copies); or ii. [] [] Continuction	MODIFIED NUCLEOTIDES					
APPLICATION ELEMENTS See MFEP chapter 800 concerning utility patent application contents. ADDRESS TO: P.O. Box 1450 Alexandria VA 22313-1450 1	R 1.53(b)) Express Mail Label No. EM 279335998 US	(Only for new nonprovisional applications under 3				
(Submit an original and a duplicate for fee processing) 2. Applicant claims small entity status. See 37 CFR 127. 3. Ø specification 3. Ø specification 4. Ø (COPY) 1. Ø bit he claims and abstract must stat on a new page (continuation of movined anagement, see MEPE 608 (µ)) 4. Ø (Figs. 1-7) 5. Øath or Declaration a	ADDRESS TO: P.O. Box 1450					
2	ACCOMPANYING APPLICATION PARTS					
3. ■ Specification (COPY) [Total Pages 126] Both the claims and abstract must start on a new page (portionation on the motiveron any angement, see MP2 608 (g(a)) Name of Assignee Solexa Limited 4. ■ Drawing(s) (35 U.S.C.113) [Total Sheets		Applicant claims small entity status				
1 W construction on the postimization on theterpostimis the postrepostimization on theterpostimization on the	26 Solexa Limited	Specification (COPY) [Total Pages]				
S. Oath or Declaration [Total Sheets] S. Oath or Declaration [Total Sheets] a		(For information on the preferred arrangement, see Mi				
aNewly executed (original or copy) bA copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) (when there is an assignee) C Attorney bA copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional with Box 18 completed) 11E English Translation Document (if applicable) iBLELETION OF INVENTOR(S) Signed statement attached detering inventor(s) name in the prior application, see 37 CFR 1.53(d)(2) and 1.33(b). 11E English Translation Document (if applicable) 6Application Data Sheet. See 37 CFR 1.76 13P Preliminary Amendment 7C CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 13P Preliminary Amendment 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a c. are required) a COP,OM or CD-R (2 copies); or ii CD-ROM or CD-R (2 copies); or ii	(2) Notice of Recordation for Illumina Cambridge Limited	(Figs 1-7) (copy				
b.		Oath or Declaration [Total Sh a. Newly executed (original or copy)				
i. □ DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 12. □ Information Disclosure Statement (PTO/SB/06 or PT Copies of citations attached 6. □ Application Data Sheet. See 37 CFR 1.76 13. □ Preliminary Amendment 7. □ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) □ Landscape Table on CD 13. □ Preliminary Amendment 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a c. are required) a. □ Computer Readable Form (CRR) b. Specification Sequence Listing on: i. □ CD-ROM or CD-R (2 copies); or ii. □ Paper 15. □ Certified Copy of Priority Document(s) (if foreign priority is claimed) Copy of Claims 16. □ Nonpublication Request under 35 U.S.C. 122(b)(2) Applicant must attach form PTO/SB/35 or equivalet i. □ CD-ROM or CD-R (2 copies); or ii. □ Paper 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: □ Continuation □ Divisional □ Continuation-in-part (CIP) Prior application information: 10/525,401 Examiner	.63(d))	b. A copy from a prior application (37 CF				
name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). 6. □ Application Data Sheet. See 37 CFR 1.76 13. □ Copies of citations attached 7. □ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 13. □ Preliminary Amendment 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a c. are required) 14. □ Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a c. are required) 15. □ Certified Copy of Priority Document(s) (if foreign priority is claimed) a. □ Computer Readable Form (CRF) b. □ Specification Sequence Listing on: b. □ Specification Sequence Listing on: 16. □ Nonpublication Request under 35 U.S.C. 122(b)(2) Applicant must attach form PTO/SB/35 or equivaler 17. □ Other: Copy Int'l Search Report; Copy Notice o 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: 10/525,401 □ Continuation □ Divisional □ Continuation-in-part (CIP) of prior application No: 10/525,401 Prior application information: Examiner J2213 Riley Art Unit: 1637 The address associated with Customer Number: 23565 OR □ correspondence address below <td></td> <td>i. DELETION OF INVENTOR(S)</td>		i. DELETION OF INVENTOR(S)				
13. ■ Preliminary Amendment 13. ■ Preliminary Amendment 13. ■ Preliminary Amendment 14. ■ Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 14. ■ Return Receipt Postcard (MPEP 503) (Should be specifically itemized) 15. ■ Computer Program (Appendix) ■ Landscape Table on CD 16. ■ Nonpublicable, items a c. are required) a. ■ Computer Readable Form (CRF) b. ■ Specification Sequence Listing on: i. ■ CD-ROM or CD-R (2 copies); or ii. ■ Paper 16. ■ Nonpublication Request under 35 U.S.C. 122(b)(2) Applicant must attach form PTO/SB/35 or equivaler 17. ■ CD-ROM or CD-R (2 copies); or ii. ■ Paper c. ■ Statements verifying identity of above copies 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: ■ Continuation 19. CORRESPONDENCE ADDRESS 19. CORRESPONDENCE ADDRESS		name in the prior application, see 37 Cl				
Computer Program (Appendix)	13. Z Preliminary Amendment	6. Application Data Sheet. See 37 CFR 1.76				
 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, items a c. are required) a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) Copy of Claims 16. Nonpublication Request under 35 U.S.C. 122(b)(2) Applicant must attach form PTO/SB/35 or equivalent 17. Other: Copy Int'l Search Report; Copy Notice on Int'l Prelim. Exam Report; and Copy of Written Opinion 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Prior application information: Examiner Jezia Riley Art Unit: 1637 OR Correspondence address below 	14. ./ Return Receipt Postcard (MPEP 503)	Computer Program (Appendix)				
a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Image: Continuation information: Examiner Jezia Riley Art Unit: 16. Copy of Claims Copy of Claims 10/525,401 Image: Continuation information: Examiner 23565 OR Correspondence address below		Nucleotide and/or Amino Acid Sequence S				
b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. Paper c. Statements verifying identity of above copies 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Image: Continuation information: Examiner Jezia Riley Art Unit: 19. CORRESPONDENCE ADDRESS	(if foreign priority is claimed) Copy of Claims					
c. Statements verifying identity of above copies Int'l Prelim. Exam Report; and Copy of Written Opinion 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Divisional Continuation-in-part (CIP) Prior application information: Examiner Jezia Riley Art Unit: 1637 19. CORRESPONDENCE ADDRESS OR Correspondence address belog	16. Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form PTO/SB/35 or equivalent.					
c. L Statements ventying identity of above copies 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Image: Continuation information: Examiner	17. Other: Copy Int'l Search Report; Copy Notice of					
specification following the title, or in an Application Data Sheet under 37 CFR 1.76:	copies Int'l Prelim. Exam Report; and Copy of Written Opinion	c. Statements verifying identity of ab				
Continuation Divisional Continuation-in-part (CIP) of prior application No.: 10/525,401 Prior application information: Examiner Jezia Riley Art Unit: 1637 19. CORRESPONDENCE ADDRESS The address associated with Customer Number: 23565 OR Correspondence address below						
Prior application information: Examiner Jezia Riley Art Unit: 1637 19. CORRESPONDENCE ADDRESS The address associated with Customer Number: 23565 OR Correspondence address below	10/525 401					
Image: Contraction information Examiner Image: Contraction information 19. CORRESPONDENCE ADDRESS Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction information Image: Contraction Image: Contraction information Image: Contraction Image: Contraction Image: Contraction Image: Contraction information Image: Contraction Image: Contraction Image: Contraction Image: Cont						
The address associated with Customer Number: 23565 OR Correspondence address belo	An Onu					
Name	23565 OR Correspondence address below	The address associated with Customer Number:				
		me				
Address		dress				
City State Zip Code	State Zip Code	y				
Country Telephone Fax	Telephone Fax	untry				
Signature Auch (J. Fischeran Date June 1, 2009	Julie 1, 2003	nature Sarch ().				
Name (Print/Type) Sarah J. Fashena, Ph.D. Registration No. (Attorney/Agent) 57,600		I Narah I kachena Ph D				

complete, including gamening, prepang, and submitting the completed application form to the USP10. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Columbia Exhibit 2043

U.S. PTO

Illumina, Inc. v. The Trustees of Columbia Page 1 of 27 University in the City of New York IPR2018-00322

DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below under my name.

I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

MODIFIED NUCLEOTIDES

the Specification of which

[X] is attached hereto

[X] was filed on August 22, 2003

as International Application No. <u>PCT/GB2003/003686</u>

I hereby state that I have reviewed and understand the contents of the above-identified Specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate, or of any PCT international application having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN FILED APPLICATION(S)						
APPLICATION	<u>COUNTRY</u>	(MONTH/DAY/YYYY)	<u>PRIORITY</u>			
NUMBER			<u>CLAIMED</u>			
0230037.4	GB	December 23, 2002	Yes			
0303924.5	GB	February 20, 2003	Yes			

I hereby claim the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

APPLICATION NUMBER(S)

FILING DATE (MM/DD/YYYY)

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT international application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations §1.56 which became available between the filing date of the prior application.

U.S. Parent	PCT Parent	Parent Filing	Parent Patent
Application No.	Number	(MM/DD/YYYY)	Number (if applicable)

10/227,131

August 23, 2002

The undersigned hereby authorizes the U.S. attorney or agent named herein to accept and follow instructions from **BOULT WADE TENNANT** as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorney or agent and the undersigned. In the event of a change in the persons from whom instructions may be taken, the U.S. attorney or agent named herein will be so notified by the undersigned.

I hereby appoint as my attorneys or agents the registered persons identified under

Customer No. 23565

for the law firm of Klauber & Jackson, said attorneys or agents with full power of substitution and revocation to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Please address all correspondence regarding this application to Customer No. 23565.

DAVID A. JACKSON, ESQ. KLAUBER & JACKSON 411 HACKENSACK AVENUE HACKENSACK, NEW JERSEY 07601

Direct all telephone calls to David A. Jackson at (201) 487-5800.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

2

FULL NAME OF FIRST INVENTOR: COUNTRY OF CITIZENSHIP:

Great Britain

CHINA

John MILTON

FULL RESIDENCE ADDRESS:

Solexa Limited Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain

SAME AS ABOVE

FULL POST OFFICE ADDRESS: SIGNATURE OF INVENTOR _____ DATE _____3

FULL NAME OF SECOND INVENTOR: Xiaolin WU

COUNTRY OF CITIZENSHIP:

FULL RESIDENCE ADDRESS:

Solexa Limited Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain

FULL POST OFFICE ADDRESS:	SAME AS ABOVE 7
SIGNATURE OF INVENTOR	Kuli hl
DATE 17.03.05	

3

FULL NAME OF THIRD INVENTOR:

Mark SMITH

COUNTRY OF CITIZENSHIP:

FULL RESIDENCE ADDRESS:

Great Britain

Solexa Limited Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain

FULL POST OFFICE ADDRESS:	SAME AS ABOVE
SIGNATURE OF INVENTOR $\frac{17}{04}$	mth
DATE 17/04/08	

FULL NAME OF FOURTH INVENTOR:

COUNTRY OF CITIZENSHIP:

FULL RESIDENCE ADDRESS:

Great Britain

Joseph BRENNAN

Solexa Limited Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain SAME AS ABOVE

FULL POST OFFICE ADDRESS:

SIGNATURE OF INVENTOR DATE

FULL NAME OF FIFTH INVENTOR:

Colin BARNES

Great Britain

COUNTRY OF CITIZENSHIP:

FULL RESIDENCE ADDRESS:

Solexa Limited

SAME AS ABOVE

CHINA

Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain

FULL POST OFFICE ADDRESS:

SIGNATURE OF INVENTOR _

DATE 16/3/05

FULL NAME OF SECOND INVENTOR: Xiaohai LIU

COUNTRY OF CITIZENSHIP:

FULL RESIDENCE ADDRESS:

Solexa Limited Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain

AME AS ABOVE

FULL POST OFFICE ADDRESS:

SIGNATURE OF INVENTOR

200 DATE

FULL NAME OF SECOND INVENTOR:

COUNTRY OF CITIZENSHIP:

Germany

Silke RUEDIGER

FULL RESIDENCE ADDRESS:

Solexa Limited Chesterford Research Park Little Chesterford Nr. Saffron Walden Essex CB10 1XL Great Britain

FULL POST OFFICE ADDRESS:

SAME AS ABOVE

60

SIGNATURE OF INVENTOR _____ DATE $23.03.2005^{-}$

6

2/11/	
Form PTO-1595 (Rev. 06/04) <u>OMB No. 0651-0027 (exp. 6/30/2005)</u> 07-19-2	005
I ANDA WAA ANAA MAA MAA MAA MAA MAA MAA MAA MAA	U. J States Patent and Trademark Office
To the Director of the U.S. Patent and U.S. Pa	990 Attorney Docket No.: 2713-1-025 lease record the attached documents or the new address(es) below.
1. Name of conveying party(ies)/Execution Date(s	2) 2 Name and address of the new address(es) below.
John MILTON; Xiaolin WU; Mark SMITH;	s): 2. Name and address of receiving party(jes) Name: SOLEXA LIMITED
Joseph BRENNAN; Colin BARNES; Xiaohai LIU; and	
Silke RUEDIGER March 17, 2005; April 17, 2005; March 17, 2005;	Name: SOLEXA LIMITED
April 6, 2005; March 16, 2005 Execution Date(s) <u>March 17, 2005; and March 23, 2005</u>	Street Address: Chesterford Research Parkon E
Additional name(s) of conveying party(ies) attached? Yes	Street Address: Chesterford Research Park F Little Chesterford, Nr. Saffron Walden, Essex
3. Nature of conveyance:	Little Chesterford, Nr. Saffron Walden, Esser
	City:
Security Agreement Change of Name	State:
Government Interest Assignment	
Executive Order 9424, Confirmatory License	Country: UNITED KINGDOM Zip:
	Additional name(s) & address(es) attached?
4. Application or patent number(s):	is document is being filed together with a new application.
A. Patent Application No.(s)	B. Patent No.(s)
10/525,401	
	•
Additional numbers	attached?
5. Name and address to whom correspondence	
	6. Total number of applications and natents
concerning document should be mailed:	6. Total number of applications and patents Involved:
Name: David A. Jackson, Esq.	
Name: David A. Jackson, Esq.	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Name: David A. Jackson, Esq.	7. Total fee (37 CFR 1.21(h) & 3.41) \$_40.00 Authorized to be charged by credit card Authorized to be charged to deposit account
Name: David A. Jackson, Esq. Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00
Name: David A. Jackson, Esq.	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00 Authorized to be charged by credit card Authorized to be charged to deposit account
Name: David A. Jackson, Esq. Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed
Name: David A. Jackson, Esq. Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card
Name: David A. Jackson, Esq. Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information
Name: David A. Jackson, Esq. Internal Address:	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card
Name: David A. Jackson, Esq. Internal Address:	Imported: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged to deposit account Image: Second state in the se
Name: David A. Jackson, Esq. Internal Address:	Imported: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number `Authorized User Name
Name: David A. Jackson, Esq. Internal Address: Street Address: KLAUBER & JACKSON 411 HACKENSACK AVE., 4TH FLOOR City: HACKENSACK State: NJ Zip: 07601 Phone Number: 201-487-5800 Fax Number: 201-343-1684 Email Address: Info@KJIPLAW.COM 9. Signature: Address: Address	Imported: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged to deposit account Import Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number `Authorized User Name July 13, 2005
Name: David A. Jackson, Esq. Internal Address:	Imported: 1 7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 Authorized to be charged by credit card Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title) 8. Payment Information a. Credit Card Last 4 Numbers Expiration Date b. Deposit Account Number `Authorized User Name

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

00000049 10525401 07/18/2005 GT0N11 40.00 DP 01 FC:8021

- .

.

...

<u>ASSIGNMENT</u>

WHEREAS, WE, John Milton, a citizen of Great Britain, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain; and

> Xiaolin Wu, a citizen of China, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain; and

> Mark Smith, a citizen of Great Britain, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain; and

Joseph Brennan, a citizen of Great Britain, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain;

Colin Barnes, a citizen of Great Britain, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain; and

Xiaohai Liu, a citizen of China, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain; and

Silke Ruediger, a citizen of Germany, residing at Solexa Ltd., Chesterford Research Park, Little Chesterford, Nr. Saffron Walden Essex CB10 1XL, Great Britain; and

have invented certain new and useful improvements in

MODIFIED NUCLEOTIDES

for which we have filed an Application for Letters Patent in the United States on February 23, 2005, and was accorded U.S. Serial No. 10/525,401; and

WHEREAS,

SOLEXA LIMITED

with an office at Chesterford Research Park, Little Chesterford, Nr. Saffron Walden, Essex CB10 1XL Great Britain

ASSIGNEE, is desirous of obtaining the entire right, title and interest in, to and under the said improvements and the said application;

Attorney Docket No.: 2713-1-025

NOW, THEREFORE, for other good and valuable consideration, the receipt of which is hereby acknowledged, we the said

John Milton; Xiaolin Wu; Mark Smith; Joseph Brennan; Colin Barnes; Xiaohai Liu Silke Ruediger

have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to the said

SOLEXA LIMITED,

its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said improvements, and the said application and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, including the right to claim priority under the terms of any appropriate International Convention based upon said application for Letters Patent of the United States, and all Letters Patent which may be granted from said improvements in any country or countries foreign to the United States and extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States, whose duty is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said

SOLEXA LIMITED,

it successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant that we have full right to convey the interest herein assigned in the manner hereinabove set forth, and that we have not executed, and will not execute, any agreement in conflict herewith.

AND WE HEREBY further covenant and agree that we will communicate to the said

SOLEXA LIMITED,

its successors, legal representatives and assigns, any fact known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisions, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said

SOLEXA LIMITED,

its successors, legal representatives and assigns, to obtain and enforce proper Patent Protection for said improvements in the United States.

IN TESTIMONY WHEREOF, we hereunto set our hand and seal the day and year set opposite our signatures.

Page²10 of 27

Attorney Docket No.: 2713-1-025





Page³l-1 of 27



CORRECTED NOTICE

UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

2713-1-025

٠

MAY 02, 2006

PTAS Televerties / Call

DAVID A. JACKSON, ESQ. KLAUBER & JACKSON 411 HACKENSACK AVE., 4TH FLOOR HACKENSACK, NJ 07601

MAY 1 1 2006

KLAUBER & JACKSON

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/15/2005	REEL/FRAME: 016774/0240 NUMBER OF PAGES: 4
BRIEF: ASSIGNMENT OF ASSIGNOR'S INT	EREST (SEE DOCUMENT FOR DETAILS).
ASSIGNOR: MILTON, JOHN	DOC DATE: 03/17/2005
ASSIGNOR: WU, XIAOLIN	DOC DATE: 03/17/2005
ASSIGNOR: SMITH, MARK	DOC DATE: 04/17/2005
ASSIGNOR: BRENNAN, JOSEPH	DOC DATE: 04/06/2005
ASSIGNOR: BARNES, COLIN	DOC DATE: 03/16/2005
ASSIGNOR: LIU, XIAOHAI	DOC DATE: 03/17/2005

016774/0240 PAGE 2

ASSIGNOR: RUEDIGER, SILKE

DOC DATE: 03/23/2005

ASSIGNEE:

SOLEXA LIMTIED CHESTERFORD RESEARCH PARK LITTLE CHESTERFORD NR. SAFFRON WALDEN ESSEX UNITED KINGDOM CB10 1XL

SERIAL NUMBER: 10525401 PATENT NUMBER: TITLE: MODIFIED NUCLEOTIDES

FILING DATE: ISSUE DATE:

MAURICE CARTER, PARALEGAL ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

Form PTO-1595 (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005) 07 - 19 - 2	2005 U.S. DEPARTMENT OF COMMERCI
103042	Attorney Docket No.: 2713-1-025 Please record the attached documents or the new address(es) below.
John MILTON; Xiaolin WU; Mark SMITH; Joseph BRENNAN; Colin BARNES; Xiaohai LIU; and Silke RUEDIGER March 17, 2005; April 17, 2005; March 17, 2005; April 6, 2005; March 16, 2005 Execution Date(s) March 17, 2005; and March 23, 200 Additional name(s) of conveying party(ies) attached? Yes Additional name(s) of conveying party(ies) attached? Yes Assignment Security Agreement Government Interest Assignment Executive Order 9424, Confirmatory License	s): 2. Name and address of receiving party(jes) Name: SOLEXA LIMITED Internal Address: Street Address: Chesterford Research Park Little Chesterford, Nr. Saffron Walden, Essex CB10 1XL City:
Other 4. Application or patent number(s):	Additional name(s) & address(es) attached?
10/525,401 Additional numbers	attached?
5. Name and address to whom correspondence concerning document should be mailed: Name:_David A. Jackson, Esq.	6. Total number of applications and patents Involved:
Internal Address:	geu by biedit card
treet Address: KLAUBER & JACKSON	Authorized to be charged to deposit account
11 HACKENSACK AVE., 4TH FLOOR	None required (government interest not affecting title)
ity: HACKENSACK	8. Payment Information
ate: <u>NJ</u> Zip: 07601	a. Credit Card Last 4 Numbers
none Number: 201-487-5800	Expiration Date
ax Number:201-343-1684	b. Deposit Account Number
mail Address: Info@KIIPLAW.COM	Authorized User Name
Signature: Naut a Jacke	July 13, 2005
David A. Jackson, Esq., Reg. No. 26,742 Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:
	at) should be faxed to (703) 306-5995, or mailed to:

Ψ ².O.Box 1450, Alexandria, V.A. 223[,]

00000049 10525401 07/18/2005 GTON11 01 FC:8021 40.00 OP

-

.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

FEBRUARY 18, 2009

PTAS



SARAH J. FASHENA, PH.D. KLAUBER & JACKSON LLC 411 HACKENSACK AVE., 4TH FLOOR HACKENSACK, NJ 07601

UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 02/17/2009

REEL/FRAME: 022275/0113 NUMBER OF PAGES: 2

BRIEF: CHANGE OF NAME (SEE DOCUMENT FOR DETAILS). DOCKET NUMBER: 2713-1-025

1

ASSIGNOR:

SOLEXA LIMITED

DOC DATE: 01/04/2008

ASSIGNEE:

ILLUMINA CAMBRIDGE LIMITED CHESTERFORD RESEARCH PARK LITTLE CHESTERFORD, NR. SAFFRON WALDEN ESSEX, UNITED KINGDOM CB10 1XL

SERIAL NUMBER: 10525401 PATENT NUMBER: TITLE: MODIFIED NUCLEOTIDES

FILING DATE: 06/01/2006 ISSUE DATE:

237.2

022275/0113 PAGE 2

..

,

•••

٨

PAULA MCCRAY-STANLEY, EXAMINER ASSIGNMENT SERVICES BRANCH PUBLIC RECORDS DIVISION

Form PTO-1595 (Rev. 06/04) OMB No. 0651-0027 (exp. 6/30/2005)	02-18-2		U.S. DEPARTMENT OF COMMER United States Patent and Trademark Of		
	1035485		Attorney Docket No.: 2713-1-025		
To the Director of the U.S. Patent a	•		ached documents or the new address(es) below.		
1. Name of conveying party(ies)	/Execution Date(s):		d address of receiving party(ies)		
SOLEXA LIMITER)	Name:	ILLUMINA CAMBRIDGE LIMITED		
	•	Internal Add	Iress:		
Execution Date(s) JANUARY		Street Addre	ESS:		
Additional name(s) of conveying party(ies) 3. Nature of conveyance:) attached? Yes 🗸 No	Little Chest	terford, Nr. Saffron Walden, Essex,		
Assignment	Merger		B10 1XL		
		City			
	Change of Name	State:			
Government Interest Assignm		Country: UN	NITED KINGDOM Zip:		
	hatory License				
4. Application or patent number	(s): This		ne(s) & address(es) attached?		
A. Patent Application No.(s)			t No.(s)		
10/525,401					
	Additional numbers at	 tached?			
5. Name and address to whom c concerning document should be		6. Total num involved:	nber of applications and patents		
Name: Sarah J. Fashena, Ph.D.		7. Total fee	(37 CFR 1.21(h) & 3.41) \$ 40.00		
Internal Address:			red to be charged by credit card		
		Authorized to be charged to deposit account			
Street Address: KLAUBER & JACK		Enclose			
411 HACKENSACK AVE., 4TH FL	.OOR	None re	quired (government interest not affecting titl		
City: HACKENSACK		-	Information		
State:Zi	p:	a. Credit C	Card Last 4 Numbers Expiration Date		
Phone Number: 201-487-5800		h D			
Fax Number: 201-343-1684					
	YOM .	Author	283/US2449 alt 81E 00000055 10525401		
Email Address:	,OIM		R1 CC- 4451 A4 64		
	1	(81 FC+8821 48.68 February 12, 2009		
Email Address: Info@KJIPLAW.C 9. Signature: Jan	1				

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

PTO/SB/06 (07-06)

Approved for use through 1/31/2007. OMB 0651-0032 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond PATENT APPLICATION FEE DETERMINATION RECORD Substitute for Form PTO-875							Application or Docket Number 12/455,397		Filing Date 06/01/2009		OMB control number.
APPLICATION AS FILED – PART I (Column 1) (Column 2)							OTHER THAN SMALL ENTITY OR SMALL ENTITY				
	FOR		NUMBER FIL	,	/ MBER EXTRA		RATE (\$)	FEE (\$)		RATE (\$)	FEE (\$)
	BASIC FEE (37 CFR 1.16(a), (b),	or (c))	N/A		N/A		N/A			N/A	
	SEARCH FEE (37 CFR 1.16(k), (i), (i), (i), (i), (i), (i), (i), (i		N/A		N/A		N/A			N/A	
	EXAMINATION FE (37 CFR 1.16(o), (p),		N/A		N/A		N/A			N/A	
	AL CLAIMS CFR 1.16(i))		mir	us 20 = *			X\$ =		OR	X\$ =	
	EPENDENT CLAIM CFR 1.16(h))	S	m	inus 3 = *			X\$ =			x \$ =	
	APPLICATION SIZE 37 CFR 1.16(s))	FEE is	heets of pape \$ \$250 (\$125 dditional 50 \$	ation and drawing er, the application for small entity) sheets or fraction a)(1)(G) and 37 (n size fee due for each n thereof. See						
	MULTIPLE DEPEN	IDENT CLAIN	I PRESENT (3	7 CFR 1.16(j))							
* If t	he difference in colu	umn 1 is less t	han zero, ente	r "0" in column 2.			TOTAL			TOTAL	
	APP	(Column ²		ED – PART II (Column 2)	(Column 3)		SMAL	L ENTITY	OR		ER THAN ALL ENTITY
AMENDMENT	06/01/2009	CLAIMS REMAINING AFTER AMENDME		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
ME	Total (37 CFR 1.16(i))	* 17	Minus	** 20	=		X\$ =		OR	X \$ =	
EN I	Independent (37 CFR 1.16(h))	* 2	Minus	***3	=		X \$ =		OR	X \$ =	
AM	Application Size Fee (37 CFR 1.16(s))										
	FIRST PRESEN	TATION OF MU	JLTIPLE DEPEN	DENT CLAIM (37 CFF	R 1.16(j))				OR		
						•	TOTAL ADD'L FEE		OR	TOTAL ADD'L FEE	
		(Column 2	<i>'</i>	(Column 2)	(Column 3)						
F		CLAIMS REMAININ AFTER AMENDME	IG	HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA		RATE (\$)	ADDITIONAL FEE (\$)		RATE (\$)	ADDITIONAL FEE (\$)
И Ш	Total (37 CFR 1.16(i))	*	Minus	**	=		X \$ =		OR	X\$ =	
AMENDMENT	Independent (37 CFR 1.16(h))	*	Minus	***	=		X\$ =		OR	X\$ =	
1EN	Application Size Fee (37 CFR 1.16(s))										
AN	FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIM (37 CFR 1.16(j))						OR				
							TOTAL ADD'L FEE		OR	total Add'l Fee	
** If *** Ii The	he entry in column the "Highest Numb f the "Highest Numb "Highest Number P ollection of informal	er Previously I per Previously reviously Paic	Paid For" IN TH Paid For" IN T I For" (Total or	IIS SPACE is less HIS SPACE is less Independent) is the	than 20, enter "20' s than 3, enter "3". e highest number f	foun	/KATRI	•	:R/ mn 1.		ry the USPTO to

process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

	Application Number	12/455,397	
REVOCATION OF POWER OF ATTORNEY	Filing Date	June 1, 2009	
WITH NEW POWER OF ATTORNEY	First Named Inventor	Milton, John	
AND	Title	MODIFIED NUCLEOTIDES	
	Art Unit	1637	
CHANGE OF CORRESPONDENCE	Examiner Name	Riley, Jezia	
ADDRESS	Attorney Docket Number	067234-0282	
	1		

I hereby revoke all prev	ious powers of attorne	y given in the above-	-identified application.	
A Power of Attorney is s			F	
OR	ubnitteo nerewigt.			
52			41552	
I hereby appoint the prac	ctitioners associated with the	Customer Number:]
Please change the corre				
	espondence address for the a	bove-identified application	n to:	
The address associate	ed with Customer Number:			
		41552		
OR				
Firm or Individual Name				
Address				
City		State	Zip	
Country				
Telephone		Email		
I am the:				
Applicant/Inventor.				
Assignee of record of the	e entire interest. See 37 CFR	3.71.		
Statement under 37 CFR	R 3.73(b) is enclosed. (Form I	PTO/SB/96)		
C_	SIGNATURE of	f Applicant or Assignee of	of Record	
Signature (G	Kin L Chali		Date 10-21	- 2010
	an G. Cabøu			2-4503
Title and Company Secreta	ary, Illumiña Cambridge Limite	ed		
NOTE: Signatures of all the inventors signature is required, see below*.	, or assignees of record of the entire	e interest or their representative	e(s) are required. Submit multiple forms if more than	one
*Total of forms	s are submitted.			

STATEMENT UNDER 37 CFR 3.73(b)
Applicant/Patent Owner: ILLUMINA CAMBRIDGE LIMITED
Application No./Patent No: 7,771,973 Filed/Issue Date: August 10, 2010
Entitled: MODIFIED NUCLEOTIDES
ILLUMINA CAMBRIDGE LIMITED , a corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)
states that it is:
1. 🖾 the assignee of the entire right, title, and interest; or
2. 🗌 an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is%
in the patent application/patent identified above by virtue of either:
A. [D] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
OR
B. [X] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:
1. From: JOHN MILTON; XIAOLIN WU; MARK To: SOLEXA LIMITED SMITH; JOSEPH BRENNAN; COLIN BARNES; XIAOHAI LIU; SILKE RUEDIGER.
The document was recorded in the United States Patent and Trademark Office at Reel <u>016774</u> , Frame <u>0240</u> , or for which a copy thereof is attached.
2. From: SOLEXA LIMITED To: ILLUMINA CAMBRIDGE LIMITED The document was recorded in the United States Patent and Trademark Office at
Reel <u>022275</u> , Frame <u>0113</u> , or for which a copy thereof is attached.
3. From:To:
The document was recorded in the United States Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.
[]] Additional documents in the chain of title are listed on a supplemental sheet.
 [D] Copies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (<i>i.e.</i>, a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.
Columb 2 Chall 10-91-2010
Signature Date
Christian G. Cabou 858-202-4503 Printed or Typed Name Telephone Number
Secretary, Illumina Cambridge Limited
Title

Electronic Ac	Electronic Acknowledgement Receipt				
EFS ID:	8795083				
Application Number:	12455397				
International Application Number:					
Confirmation Number:	6397				
Title of Invention:	MODIFIED NUCLEOTIDES				
First Named Inventor/Applicant Name:	John Milton				
Customer Number:	23565				
Filer:	Victor Behar/Lori Ford				
Filer Authorized By:	Victor Behar				
Attorney Docket Number:	2713-1-025DIV				
Receipt Date:	08-NOV-2010				
Filing Date:	01-JUN-2009				
Time Stamp:	20:34:09				
Application Type:	Utility under 35 USC 111(a)				

Payment information:

Submitted with Payment no		no				
File Listing:						
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
1	Miscellaneous Incoming Letter		Transmittal 26850983.pdf	18361	no	1
			mansmittai_20050905.pui	2c3e35e02032c5db7eccf8e05408ecef4d53 2f94		
Warnings:				· ·		
Information:		P	age 21 of 27			

2	2 POA_373b.PDF		159368		2
2		FUA_5750.FUF	3d9fe27713fe09bc6f643c1ac97fe1b318a38 d8a	yes	2
	Multip	art Description/PDF files in .	zip description		
	Document De	Start	E	nd	
	Power of Attorney		1		1
	Assignee showing of ownership per 37 CFR 3.73(b).		2	2	
Warnings:					
Information	:				
		Total Files Size (in bytes)	: 1	77729	
Post Card, as <u>New Applica</u> If a new app 1.53(b)-(d) a Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 ar national stag <u>New Interna</u> If a new inte an internatio and of the In	ed by the applicant, and including pars s described in MPEP 503. Ations Under 35 U.S.C. 111 lication is being filed and the application is being filed and the application dMPEP 506), a Filing Receipt (37 CF gement Receipt will establish the filin age of an International Application un ubmission to enter the national stage and other applicable requirements a F ge submission under 35 U.S.C. 371 w ational Application Filed with the USF ernational application is being filed an onal filing date (see PCT Article 11 an international Filing Date (Form PCT/Re curity, and the date shown on this Action.	ation includes the necessary of FR 1.54) will be issued in due og date of the application. Inder 35 U.S.C. 371 of an international applicati form PCT/DO/EO/903 indicati ill be issued in addition to the PTO as a Receiving Office and the international applicat of MPEP 1810), a Notification O/105) will be issued in due c	components for a filir course and the date s on is compliant with ng acceptance of the e Filing Receipt, in du ion includes the nece of the International ourse, subject to pres	ng date (see hown on th the condition application e course. ssary comp Application scriptions c	37 CFR is ons of 35 n as a oonents for Number oncerning

Under the Paperwork Reduction Act of 1995, no pr		Approved for use through 1 nt and Trademark Office; U.S. DEPA	ARTMENT OF COMMERC
POWER OF ATTORNEY TO	******		***************************************
hereby revoke all previous powers of a 7 CFR 3.73(b).	attorney given in the applicatio	n identified in the attache	d statement under
hereby appoint:			
Practitioners associated with the Customer	r Number: 143	847	
OR Practitioner(s) named below (if more than t	ten patent practitioners are to be name	ed, then a customer number mu	ist be used):
Name	Registration Number	Name	Registration Number
*****			********
s attomey(s) or agent(s) to represent the unders ny and all patent applications assigned <u>only</u> to th tached to this form in accordance with 37 CFR is lease change the correspondence address for the	he undersigned according to the USP 3.73(b). he application identified in the attache	TO assignment records or assigned at the statement under 37 CFR 3.73	nment documents
The address associated with Customer OR	Number:		
Firm or			
Firm or Individual Name			
Firm or Individual Name Address	State	 Zip	
Firm or individual Name Address City Country			
Firm or individual Name Address City Country	State		
Firm or Individual Name Address City Country Telephone			
Firm or	Ema		
Firm or Individual Name Address City Country Telephone ssignee Name and Address: lumina Cambridge Limited Chesterford Research Park, Little Ches Ssex, CB10 1XL, United Kingdom Copy of this form, together with a state led in each application in which this for he practitioners appointed in this form i	Ema iterford, NR. Saffron Walden ement under 37 CFR 3.73(b) (Fo rm is used. The statement under if the appointed practitioner is a	rm PTO/SB/96 or equivale rs 37 CFR 3.73(b) may be c authorized to act on behalf	completed by one c
Firm or individual Name Address Address City Country Telephone issignee Name and Address: lumina Cambridge Limited Chesterford Research Park, Little Ches Ssex, CB10 1XL, United Kingdom Acopy of this form, together with a state Ide in each application in which this form In partitioners appointed in this form in the practitioners appointed in this form in which	Ema iterford, NR. Saffron Walden ement under 37 CFR 3.73(b) (Fo rm is used. The statement under if the appointed practitioner is a	rm PTO/SB/96 or equivaled er 37 CFR 3.73(b) may be c suthorized to act on behalf he filed.	ompleted by one c of the assignee,
Firm or Individual Name Address City Country Telephone ssignee Name and Address: lumina Cambridge Limited chesterford Research Park, Little Ches ssex, CB10 1XL, United Kingdom a copy of this form, together with a state led in each application in which this form in a must identify the application in which The individual whose signatu	Ema eterford, NR. Saffron Walden ement under 37 CFR 3.73(b) (Fo rm is used. The statement under if the appointed practitioner is a ch this Power of Attorney is to b SIGNATURE of Assignee of Rec	rm PTO/SB/96 or equivaled er 37 CFR 3.73(b) may be c suthorized to act on behalf he filed.	ompleted by one c of the assignee,
Firm or Individual Name Address Address City Country Telephone Issignee Name and Address: lumina Cambridge Limited Chesterford Research Park, Little Ches Essex, CB10 1XL, United Kingdom Acopy of this form, together with a state Ided in each application in which this form in a must identify the application in which the form in the practitioners appointed in this form in the must identify the application in which the form in a must identify the application in which the form in the must identify the application in which the form in the must identify the application in which the form is form in a must identify the application in which the form is form in the must identify the application in which the form is form in the must identify the application in which the form is form in the must identify the application in which the form is form in the must identify the application in which the form is form in the must identify the application in which the form is form in the must identify the application in which the form is form in the must identify the application in which the must identify the application in which the must identify the application in the must identify the applicatication in the must identify the application	Ema sterford, NR. Saffron Walden ement under 37 CFR 3.73(b) (Fo rm is used. The statement under if the appointed practitioner is a sch this Power of Attorney is to b SIGNATURE of Assignee of Rec re and title is supplied below is autho	rm PTO/SB/96 or equivale or 37 CFR 3.73(b) may be c nuthorized to act on behalf be filed.	ompleted by one c of the assignee,

complete, including gamening, preparing, and submitting the completed application form to the USP10. Time will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

.....

.....

PTO/SB/96 (07-09) Approved for use through 07/31/2012. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

STATEMENT UNDER 37 CFR 3.73	<u>(b)</u>
Applicant/Patent Owner: Illumina Cambridge Limited	
Application No./Patent No.: 7,771,973 Filed/Issue Da	ate: August 10, 2010
Titled: MODIFIED NUCLEOTIDES	
Illumina Cambridge Limited, acorporation	
	oration, partnership, university, government agency, etc.
states that it is:	
1. X the assignee of the entire right, title, and interest in;	
2. an assignee of less than the entire right, title, and interest in (The extent (by percentage) of its ownership interest is%); or	
3. the assignee of an undivided interest in the entirety of (a complete assignment)	nent from one of the joint inventors was made)
the patent application/patent identified above, by virtue of either:	
A. An assignment from the inventor(s) of the patent application/patent identified the United States Patent and Trademark Office at Reel	ed above. The assignment was recorded in _, Frame, or for which a
OR	
B. X A chain of title from the inventor(s), of the patent application/patent identifie	· · ·
1. From: John Milton, Xiaolin Wu, Mark Smith, Joseph E To: Sol	exa Limited
The document was recorded in the United States Patent and Tra Reel <u>016774</u> , Frame <u>0240</u> ,	
2. From: Solexa Limited To: Illur	nina Cambridge Limited
The document was recorded in the United States Patent and Tra	demark Office at
Reel 022275 , Frame 0113 ,	or for which a copy thereof is attached.
3. From: To:	
The document was recorded in the United States Patent and Tra	idemark Office at
Reel, Frame,	or for which a copy thereof is attached.
Additional documents in the chain of title are listed on a supplemental she	et(s).
As required by 37 CFR 3.73(b)(1)(i), the documentary evidence of the chain of or concurrently is being, submitted for recordation pursuant to 37 CFR 3.11.	f title from the original owner to the assignee was,
[NOTE: A separate copy (<i>i.e.</i> , a true copy of the original assignment documen accordance with 37 CFR Part 3, to record the assignment in the records of the	
The undersigned (whose title is supplied below) is authorized to act on behalf of the as	ssignee.
/Jane Qian Dai/	April 26, 2017
Signature	Date
Jane Qian Dai	Attorney, Reg. No. 61,569
Printed or Typed Name	Title
This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a be process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection	

gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner** for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Privacy Act Statement

The **Privacy Act of 1974 (P.L. 93-579)** requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether disclosure of these records is required by the Freedom of Information Act.
- 2. A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (*i.e.*, GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspection or an issued patent.
- 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.

Electronic Acknowledgement Receipt				
EFS ID:	29040504			
Application Number:	12455397			
International Application Number:				
Confirmation Number:	6397			
Title of Invention:	MODIFIED NUCLEOTIDES			
First Named Inventor/Applicant Name:	John Milton			
Customer Number:	41552			
Filer:	Qian Dai/Tony Do			
Filer Authorized By:	Qian Dai			
Attorney Docket Number:	067234-0282			
Receipt Date:	26-APR-2017			
Filing Date:	01-JUN-2009			
Time Stamp:	19:19:45			
Application Type:	Utility under 35 USC 111(a)			

Payment information:

Submitted with Payment		no				
File Listing:						
Document Number	Document Description		File Name	File Size(Bytes)/ Message Digest	Multi Part /.zip	Pages (if appl.)
			ILLINC PTO-	1422224		
1	Power of Attorney	SB	-80_General_POA_Illumina_ Cambridge_Limited.pdf	a6d9c9f9ec64c03aabd371389abaabb3c4c 55e19	no	1
Warnings:		 Pa	age 26 of 27	ļ		

Information					
			426972		
2	Assignee showing of ownership per 37 CFR 3.73	ILLINC-381D1_373-Statement. pdf	f8dacec7be2b1459605a4bcca3a9739c7b7 e6e11	no	2
Warnings:					
Information:					
		Total Files Size (in bytes)	: 18	49196	
characterize Post Card, as <u>New Applica</u> If a new appl 1.53(b)-(d) at Acknowledg <u>National Sta</u> If a timely su U.S.C. 371 ar national stag <u>New Internat</u> If a new inter an internatic and of the In	ledgement Receipt evidences receip d by the applicant, and including page described in MPEP 503. <u>tions Under 35 U.S.C. 111</u> ication is being filed and the applica and MPEP 506), a Filing Receipt (37 CF ement Receipt will establish the filin <u>ge of an International Application un</u> bmission to enter the national stage and other applicable requirements a F ge submission under 35 U.S.C. 371 wit <u>tional Application Filed with the USP</u> mational application is being filed an ponal filing date (see PCT Article 11 an ternational Filing Date (Form PCT/RC urity, and the date shown on this Ack on.	ge counts, where applicable. tion includes the necessary of R 1.54) will be issued in due g date of the application. <u>ider 35 U.S.C. 371</u> of an international applicati orm PCT/DO/EO/903 indicati II be issued in addition to the <u>TO as a Receiving Office</u> ind the international applicat d MPEP 1810), a Notification D/105) will be issued in due c	It serves as evidence components for a filir course and the date s ion is compliant with ing acceptance of the e Filing Receipt, in du ion includes the nece of the International ourse, subject to pres	of receipt s og date (see hown on th the condition application e course. ssary comp Application scriptions co	imilar to a 37 CFR is ons of 35 as a onents for Number oncerning